Inside displaced to violet means
Focus should be made shorter

Pressing in right hand switch of dome turning relay
moves dome to East

Last plate for report 1942-43	=	8939			
" "	June 1943	8948			
" "	July 1943	9054	106		
" "	Aug "	9185	131	237	
" "	Sept "	9380	195	432	
" "	Oct "	9587	207	639	
" "	Nov "	9665	78	717	
" "	Dec "	9707	42	759	
" "	Jan 1944	9779	72	831	
" "	FEB "	9825	46	877	
" "	Mar "	9908	83	960	
" "	Apr. "				

Hour Angle
End

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
				David Dunlap Observatory
				74" LOGBOOK
				VOL 12
				PLATE Nos. 8971 - 9980
				JUL. 1943 - APR. 1944

Date ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
	During week of July 10–16th, the Cassegrain secondary + 19-inch prism and the 74-inch were re-aluminized.									
			Friday July 16–17, 1943			H-L	cloudy.			
			Saturday, July 17–18, 1943			H-L set				
8971	HD 142244	15 48.4	+17 43	I-25	E-103a-O	008	24.0	21 21	22 21	1
8972	159926	17 32.2	+28 14	"	"	"	24.0	22 24	23 24	2
8973	168323	18 14.0	+23 15	"	"	"	24.0	23 27	01 07	3
8974	194616	20 21.5	+19 31	"	"	"	23.8	01 12	02 16	4
8975	204560	21 24.3	+17 29	"	"	"	23.7	02 21	03 35	1
	Focus Test				Outside through base					

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
						1943 Jul. 9 MC +30.7 SC -06.6 SW -15.6 MT +03.7 ET +0?.?
						Cloudy all day with light rain. Clearing about dark, some trouble finding stars; not in finding eyepiece. Reset finder wires. [Focus set 23.40]
						Position of star in finder field when centred in Cassegrain field. Image looks clear.
1	52 W	+17 34	0-1	7.44	K0	1½ 1½ 1½ Image very unsteady & variable in size. NW wind good
1	13 W	+28 12	1	7.66	K5	1½ 1½ 1½ good
2	14 W	+23 14	1-0	7.90	K5	1½ 1½ 1½ good
1	15 W	+19 39	1-0	7.44	K0	1½ 1½ 1½ Light clouds. good
1	32 W	+17 37	1-0	7.54	K5	1½ 1½ 1½ good
						7-5
						Comps a bit weak. all good plates.
						Exposures about 3/4 of tabular exposures.

Date Sunday July 18-19/43 - No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H.	Hour Ang. End
						Set.					
8976	H.D. 141456	15 44.1	+32 02	1-25	F-103a-0	.008	+26.0°C	20 47	22 41	2	222
8977	162734	17 47.4	+15 22	"	"	"	+25.8°C	22 47	00 47	3	225
8978	194937	20 23.2	+08 07	"	"	"	+25.6	00 54	02 12	4	114
	Focus test - outside three base - 7^{S}-5^{S}										

Monday July 19-20/43 No

Sky starting to fill in at sunset - clouds, clouds, clouds thereafter.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
						Focus set 23.37±
2 22W	+31 54	0	7.74	K5	1½-1½-1½	Trouble with Dec. Guiding and setting — unable to get star back on slit 22.58 - 23.11
2 25W	+15 17	0	7.54	K0	1½-1½-1½	
1 14W	+08 14	0-1	7.26	K0	1½-1½-1½	

OK OK OK

Light clouds 01.53 - getting thicker 02.10
sky still thick 03.10

	N.C.	S.C.	S.W.	M.T.N.S	STW. mm
July 20/43	+23.1	-10.5	-11.6	-11.3	000

Comparisons a bit weak.
Trees could have been slightly longer.

Date Tuesday July 20-21/43 - A Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End
8979	HD 15 0429	16 35.9	63 17	1-25"	F-1032-0	slit .008	26.0°C	20 47	21 47	1	044
8980	HD 16 4428	17 56.0	78 20	"	"	"	26.2°C	21 57	22 45	2	025
8981	HD 17 3398	18 48.0	62 39	"	"	"	26.2°C	22 53	23 41	3	035
8982	HD 18 4936	19 31.6	59 57	"	"	"	26.1°C	23 52	00 32	4	034
8983	HD 19 7939	20 41.8	56 08	"	"	"	26.0°C	00 38	02 08	1	100
8984	HD 21 0905	22 08.5	58 34	"	"	"	26.0°C	02 15	03 05	2	030
8985	HD 21 6756	22 58.4	36 33	"	"	"	26.0°C	03 12	03 28	3	010
8986	HD 22 1246	23 25.3	48 36	"	"	"	26.0°C	03 34	04 04	4	023
	Focus test - outside through base 75-55										

Wednesday July 21-22/43 - A

Thunderstorms in early part of night. Cloudy all night

g Time S.T.	H	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
								Focus set 23.37
47	1	0 44 W	63 08	2-1	7.62	K5	1½-1½-1½	good. Spots n.g.
45	2	0 25 W	78 16	2-1	7.44	K0	1½-1½-1½	OK
41	3	0 35 W	62 40	1	7.01	K0	1½-1½-1½	good. Light clouds coming up from North (spotter light cap on, wing ground lights put down, without pressing button. Plate in H-1 see note.
32	4	0 34 W	60 00	1-0	6.59	A2	1½-1½-1½	HD 184903 also in field ⊙ wing ground lights OK
08	1	1 00 W	56 15	0-1	7.59	Ma	1½-1½-1½	v good image very unsteady at first, steadied down
05	2	0 30 W	58 46	2	7.52	K0	1½-1½-1½	Later Clouds all gone. These plates & that in holder # 1 are not spotted v. good
28	3	0 10 W	36 45	3	6.34	F2	1½-1½-1½	strong
04	4	0 23 W	48 40	3	7.45	K2	1½-1½-1½	strong

Examined spotter; unable to make it misbehave in repeated tests.

Cleaned & adjusted comparison arc.

	mc	sc.	s.w.	m t.w.	s.t.w.
July 22	+21.7	-10.8	-19.0	-10.1	m 00.0

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Date Thursday July 22-23 1943 H-No **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
3987	HD 135530	15 10 5	+42 23	I-25	E-103a-O	2mm 008	22 9	20 38	21 58	4
3988	[illegible]	17 21.2	+ 14 35	"	"	"	22 9	22 01	23 31	1
3989	[illegible]	18 53.6	+69 [illegible]	"	"	"	23 0	23 33	01 11	2
3990	196610	20 33.4	+ 17 55	"	"	"	+22.8	01 15	02 35	3
3991	208110	21 48.9	+ 06 [illegible]	"	"	"	+22.7	02 39	03 49	4
3992	219485	23 11.0	+ 13 41	"	"	"	+22.8	03 55	04 11	1
	Time Check on Tide three bells -7 5-5									

Friday July 23-24/43

Cloudy during early evening - clearing about midnight but filling in shortly - sky still very uncertain 2:15 AM.

Trans-at 23 42

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
1 37 W	+42 32	0-1	7.72	M	1½-1½-1½	
1 41 W	+14 51	0-1	7.01	Ab	1½-1½-1½	
1 54 W	+08 16	0-1	7.69	K2	1½-1½-1½	
1 43 W	+18 04	0-1	7.62	Mc	1½-1½-1½	
1 41 W	+06 34	0	7.14	Go	1½-1½-1½	seeing varies
0 41 W	+73 55	1-2	5.74	Ao	1½-1½-1½	
						J.C. 24/43 +31.0 60.0 WEST.

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Date Saturday July 24-25/43 - 4 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Ang End
8713	HD 193944	20 17.9	53 16	I-25"	E-103a-O	Set .008	25.7°C	00 07	01 05	2	
	Focus test	Outside through haze				75 - 55					

Focus set 23.37

ag Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
	0 39 W	+53 24	3-2-0	7.56	K_5-	1½-1½-1½	Cloudy in evening. Cleared clearing about midnight. Light clouds at times make image very faint. Stars not very faint. Sky clouded up from south. Closed up at 2 ¼ E.D.T.

This plate and roll of film were [illegible]

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Date Sunday July 25 26 1942 A-H's Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End
						5.7				
5994	HD 139284	15 32.2	+38 42	I-25	E-103a-J	0.08	25.2	20 34	21 17	3
5995	153279	16 52.5	+50 13	"	"	"	25.2	21 21	2[illegible]	[illegible]
5996	161367	17 42.1	+44 08	"	"	"	25.1	22 15	23 07	1
5997	176411	18 57.1	+40 33			"	25.1	23 11	00 07	2
5998	190658	20 09.1	+15 13	"	"	"	25.0	00 41	01 15	3
5999	204912	21 23.5	+07 16	"	"	"	25.0	01 50	02 01	4
6000	224128	23 50.3	+25 24	"	"	"	25.0	03 08	04 12	1
	Time Est. - Fair to low Haze 7[s]-5[s]									

Clouds + light showers most of day. Hazy and smoky.
Truss left at 23:37

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 32 W	+38 32	2-3	7.57	K2 1½ 1½ 1½	
1 11 W	+50 05	2 3	8.05	Ma 1½ 1½ 1½	
1 21 W	+44 05	2 3	7.64	K2 1½ 1½ 1½	seeing variable
1 34 W	+40 35	2-1	8.12	Ma 1½ 1½ 1½	very hazy night.
1 37 W	+15 10	2-3	7.21	Ma 1½ 1½ 1½	
1 3 W	+07 54	2-3	8.01	A2 1½ 1½ 1½	Spot the field to shut off [illegible]
0 15 W	+25 38	2 3	7.85	K5 1½ 1½ 1½	exposure plate in [illegible] spot [illegible] [illegible] [illegible]

Date Monday July 26-27/43 S-H-No Julian Day

Plate No.	Object	R.A. 1900 1942	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
9001	NGC. 5904	15 15.4	+02 19	Newtonian	E-103a-O			21 27	21 31	
9002	6402	17 34.4	-03 12	"	"			21 36	21 50	
9003	6402	17 34.4	-03 12	"	"			21 51	22 03	
9004	6333	17 15.7	-18 27	"	"			22 06	22 14	
	KS 132	17 15.4	-15 02	"	"			22 16	22 24	
9005	6402	17 34.4	-03 12	"	"			22 27	22 39	
9006	6402	17 34.4	-03 12	"	"			22 40	22 52	
9007	6333	17 15.7	-18 27	"	"			22 58	23 08	
9008	6402	17 34.4	-03 12	"	"			23 13	23 27	
9009	6402	17 34.4	-03 12	"	"			23 28	23 40	
9010	6366	17 24.4	-05 01	"	"			23 43	23 53	
9011	6402	17 34.4	-03 12	"	"			23 56	00 10	
9012	6402	17 34.4	-03 12	"	"			00 11	00 23	
9013	6402	17 34.4	-03 12	"	"			00 24	00 38	
9014	6717	18 11.2	+30 04	"	"			00 44	00 52	
9015	7089	21 29.9	-01 01	"	"			01 08	01 12	

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
9					Guiding Lost Plot 2
50		-03 14			" "
11	0 38 E				
14	0 57W				Large Plot
21	1 07W				
44	1 34W				Lost Plot
58	1 16W				← Same as 17 23.6 +04
01	1 51W				
21	1 51W				
40	2 05W				
55	2 27W				
10	2 35W				
23	2 48W				
39	3 03W				
52	1 37W				
12					Normal guiding ← Same as Aquilae 21 12.7 +05 00

Date Monday July 26-27/43 Cont'd Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9016	NGC 6981	20 49.5	-12 48	Newtonian	E-103a-O			01 20	01 42	0 52
9017	6760	19 08.0	+00 55	"	"			01 46	02 16	3 08
9018	6779	19 14.2	+30 04	"	"			02 19	02 27	3 13
9019	6205	16 39.5	+36 34	"	"			02 34	02 37	2 57
9020	7492	23 05.1	-15 57	"	"			02 50	03 09	0 03

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 52W				Spacing
3 08W				
3 13W				
5 57W				
0 03W				through clouds

Date Tuesday July 27-28/43 S-H-A Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
9021	1225904	15 54	+02 19	[illegible]	F[illegible] D			21 05	21 07	2
9022	6402	17 34.4	-03 12	"	"			21 13	21 25	1
9023	6402	17 34.4	-03 12	"	"			21 26	21 31	2
9024	6333	17 15.7	-18 27	"	"			21 43	21 47	1
	KA133	17 15.4	-15 02	"	"			21 53	21 54	1
9025	6402	17 34.4	-03 12	"	"			22 02	22 14	2
9026	5466	17 08.1	+28 46	"	"			22 19	22 31	1
9027	6402	17 34.4	-03 12	"	"			22 36	22 [illegible]	1
9028	NGC 6333	17 15.7	-18 27	"	"			22 52	23 03	1
9029	6566	17 22.[illegible]	-23 01	"	"			23 05	23 14	1
9030	6402	17 34.4	-03 12	"	"			23 17	23 27	1
9031	5466	17 08.1	+28 46	"	"			23 35	23 45	2
9032	6333	17 15.7	-18 27	"	"			23 50	23 58	1
9033	6402	17 34.4	-03 12	"	"			0 01	0 12	1
9034	6566	17 22.[illegible]	-23 01	"	"			0 22	0 32	1
9035	6710	18 [illegible].0	+00 52	"	"			0 36	0 [illegible]	2
	110	0 39.2	+16 [illegible]					[illegible]	[illegible]	

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 [illegible] E				Spiking small stars 2W & 3½
0 07 E				seeing poor.
0 06 W				Secondary Focus 5m 40s
0 36 W				5m 40s.
0 45 W				
0 48 W				
4 28 W				← Focused on 5 Diffraction
1 17 W				
1 47 W				Turbulence dec for 20s.
1 52 W				
1 57 W				seeing very poor
5 45 W				
2 47 W				
2 40 W				← Focus on 5 Diffraction focus OK
3 10 W				
1 53 W				secondary Focus 2m [illegible] 3½ 4½

Date Tuesday July 27-28/43 Cont. Julian Day

Plate No.	Object	R.A. 1900 4 2	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End
9036	NGC 6779	19 14.2	+30 04	Twin	[illegible]			1 28	1 34	1	
9037	AP 81	20 49	-12 47	"	"			1 40	2 00	2	
9038	6760	19 08	+00 52	"	"			2 09	2 37	1	
9039	7089	21 30.2	-0 47	"	"			2 45	2 47	2	
9040	7492	23 [illegible]	-15 34	"	"			2 56	3 16	1	
9041	6779	19 14.2	+30 04	"	"			3 28	3 30	2	

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2 23 W				S finding
1 13 W				
3 32 W				focused on N, guide - focus OK. Followed 3.5.
1 20 W				A guiding
0 13 W				S finding
1 19 W				

	M.C.	(R.A.) DC	SW	M.T.W	S.T.W
July 28/43	+17.9	+54.3	+21.8	+32.5	+0.1

Date Thursday July 29-30/43 - A Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H
9042	HD 159026	17 23.3	-38 58	T-25	E 430	.035	23.8°C	21 13	21 53	2
9043	169646	18 20.6	-38 42	"	"	"	23.9	21 58	22 50	3
9044	154756	18 31.0	-49 02	"	"	"	23.8	22 57	23 49	4
9045	194536	21 21.0	+59 05	"	"	"	23.7	23 55	01 15	1
	214298	22 32.1	+12 04	"	"	"	23.7	01 27	01 53	2
9046F	Focus test	"	Tube through base			75 - 55 (over-run plutonium)				
9046	Two focus tests									

Partly cloudy evening. Clouds cleared away after 23.40 [illegible]

ng Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	Focus at 23.40 REMARKS
[illegible]	0 34W	38 55	0	6.79	F_2	1½-1½-1½ seeing very poor [illegible]
[illegible]	0 38W	38 42	0-1	7.52	K_2	1½-1½-1½
[illegible]	0 28W	49 08	1-2	7.54	M_6	1½-1½-1½ Bright aurora in north
[illegible]	1 03W	9 50	1-2-0	7.64	K_5	1½-1½-1½ { [illegible]
[illegible]	0 30E	12 16	1	7.71	K_5	1½ [illegible] Strong north wind.

Date Friday July 30-31/43 - No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End
3047	H.D. 156573	17 13 4	+23 13	1-25"	E 103-0	Set. .018	+25.7C	21 18	22 16	3	1.15W
3048	167654	18 11 1	+02 22	"	"	"	+25.5	22 20	23 16	4	1.18W
3049	174569	18 46 0	+10 52	"	"	"	+25.4	23 20	00 46	1	2.13W
3050	200130	20 58 3	+14 20	"	"	"	+25.3	00 50	01 38	2	0.53W
3051	205394	21 21 6	+15 25	"	"	"	+25.3	01 44	02 32	3	1.16W
3052	215518	22 40 7	+5 1 57	"	"	"	+25.2	02 37	03 39	4	1.12W
3053	222618	23 27 1	+5 6 43	"	"	"	+25.1	03 43	04 19	1	0.56W
	Focus Tab on tube throughout 7^{S}-6^{S}										

Scattered clouds during day, gradually clearing away after sunset.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
1 15 W	+23 07	2-3	7.60	K2	1½-1½-1½	Focus set 23.38 =
1 18 W	+02 20	2-3	7.66	M1	1½-1½-1½	seeing variable
2 13 W	+10 54	0-3	7.70	K2	1½-1½-1½	Orion Θ ⊢ took brighter of two
0 53 W	+14 30	3	7.73	M2	1½-1½-1½	
1 16 W	+45 35	2-3	7.63	K2	1½-1½-1½	
1 12 W	+52 12	2	7.73	K2	1½-1½-1½	seeing variable
0 56 W	+56 56	2	7.11	G5	1½-1½-1½	

Date Sat. July 31-Aug 1 Y. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End
9054	HD 187880	19 47.8	37 35	I 25	F 1030.0	D08	+26.0	11 18	11 28	2	
9055	HD 190964	20 03.4	51 33	"	"	"	25.9	12 33	1 29	3	1 43W
9056	HD 200740	21 00.2	49 57	"	"	"	25.6	1 35	2 25	4	1 42W
9057	HD 208606	21 52.3	61 04	"	"	"	25.8	2 30	3 20	1	45W
9058	HD 214878	22 36.2	53 20	"	"	"	25.8	3 24	4 04	2	1 45W
	Focus test outside three hour 3^{S} - 6^{S}										

Could not hear Tele at 11:30 P.S.T. that we were working

Focus unchanged

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comets	REMARKS
57 W	37 40	1-0	766	Ma	½-1½-1½	
1 43 W	51 41	1-2	763	Ma	½-1½-1½	good
1 42 W	50 05	1-2	745	K0	½-1½-1½	strong
1 45 W	61 16	2	740	K5	½-1½-1½	strong
1 45 W	53 31	1-2	710	K0	½-1½-1½	strong
						From Tele

Date Sunday Aug 1-2/43 No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9059	HD 173 833	18 42 3	+18 36	1-25"	E-103a-O	S.L. .008	+28.0°C	22 44	00 14 3	
9060	195 820	20 28 5	+31 58	"	"	"	+28.1	00 26	01 34 4	
9061	206 721	21 37 0	+49 08				+28.1	01 38	02 42 1	
9062	217 941	22 59 2	+58 31	"	"	"	+28.1	02 47	04 04 2	
	Invert tab outside the frame 7^{s}-6^{s} (Lids not pulled									

Murky clouds moving in from W at end
sky very foggy 10-11 P.M. - Seeing improving
Great by 11:45

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
1 52W	+18 39	1-0	7.45	Ks	1½-1½-1½	Focus set 22.32
1 27W	+52 07	1-2	7.27	Ko	1½-1½-1½	N E S W H.D 175664 (A2) Last Trail plate 01:15-01:30
1 23W	+49 19	1	7.12	Ko	1½-1½-1½	clouds set in
1 26W	+58 14	0	7.28	Gs	1½-1½-1½	seeing variable
(out for 7° exposure of trail)						

	MC	EC	S1W	M31	S2W
Aug 2/43	+13.4	+02.5	-01.6	+36.9	+10.7

Date Sunday Aug 5-6/43 A Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9063	HD 159026	17 h 03	-35 55	I-A	Eastar-D	Set .038	23.0°	21 02	21 26	3
9064	17h 04m ?	17 56	+25 ?	"	"	"	22.9	21 38		
9065	17h 34m ?	17 ?	+? ?	"	"	"	23.0	21 44		
9066	17h 45m 3	17 ?	-62 ?	"	"	"	?	23 36		
9067	001 298	2 056	+06 3	"	"	"	22.9	00 23		
9068	21h 29m	22 ?	+? ?	"	"	"	?	01 21		
9069	021 612	23 ?	+80 ?	"	"	"	22.9	02 20		
9070	292°	00 ?	-? ?	"	"	"	22.9	03 16		
9071	9229	01 ?	+29 ?	"	"	"	22.9	03 40		
	Focus Test on side of plate									

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comb	REMARKS
0 35W	38 33	3	6.79	F_2	1½-1½-1½	
0 03E	45 16	3-2	7.69	F_0	1½-1½-1½	
0 16W	11 26	2-1	6.59	K_2	1½-1½-1½	
0 39W	42 43	2	7.35	K_0	1½-1½-1½	
0 49W	06 45	2-1	7.56	K_0	1½-1½-1½	
0 28W	12 16	2	7.21	K_0	1½-1½-1½	
0 20W	20 31	2	7.67	K_0	1½-1½-1½	
0 15E	27 16	2	6.54	K_2	1½-1½-1½	
0 03E	39 45	2-1-0	7.40	K_0	1½-1½-1½	

Date Friday Aug 6-7/43 L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9072	HD. 154610	17 01 4	09 53	I-25	E-103a-O	Spl C.B	21.5	20 44	2[illegible] 30	1	
9073	" 191178	20 07.5	16 24	"	"	"	21.5	22 34	00 34	2	
9074	" L1v201	22 45.8	18 36	"	"	"	21.5	00 39	01 49	3	
9076	" 226136	23 58.1	66 09	"	"	"	21.4	01 37	03 09	4	
	Focus Vol			Dark through base.							

Scope left at 23 41

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
2 09 W	09 46	0	7.74	K_5	1½-1½-½	Broken clouds in bottom part of field
1 11 W	16 29	0-1	8.02	Ma	1½-1½-1½	Cirrus clouds
0 17 E	18 30	0-1	7.90	K0	1½-1½-1½	
0 10 E	66 52	1	7.97	Ma	1½-1½-1½	Cut off by clouds.
					7.5	

Date Saturday August 7-8/93 - A Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle
9075	HD159222	17 28.4	+39 21	T-25	F103aO	Set 0.05	21.7°C	20 14	20 20	1	
9076	159026	17 27.3	+38 56	"	"	"	21.7°C	20 44	21 20	2	
9077	192691	19 36.2	+36 46	"	"	"	21.8°C	21 24	21 34	3	
9078	186121	19 31.5	+42 30	"	"	"	21.8°C	22 03		4	
9079	186776	19 41.4	+40 26	"	"	"	21.8°C				
9080	192344			"	"	"	21.7°C	23 39			
9081	192443			"	"	"	21.7°C				
9082	205818			"	"	"	21.7°C				
9083				"	"	"				1	
9084		22 37.2	+41 03	"	"	"				2	
9085		22 03.9	+43 41	"	"	"	21.7°C	02 10		3	
9086	228682	23 33.7	+41 17	"	"	"	21.7°C	02 45		4	
9087	2704			"	"	"	21.7°C			1	
9088	17781			"	"	"	21.7°C			2	
9089				"	"	"	21.7°C			3	
	Tues Eve - Tech Change Here										

Focus set 23.44±

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
0 05E	34 18	3	7 32	B_5	1½-1½-1½	Hazy in south. Wonderful images. image very sharp and steady
0 41W	38 55	3	7.65	M_a	1½-1½-1½	" " " " " a few light clouds
0 07W	30 47	3	7.48	K_0	1½-1½-1½	" " " " " Hazy clouds "
0 37E	42 56	3	7.74	M_a	1½-1½-1½	
0 38W	40 35	3	7.79	M_a	1½-1½-1½	
0 10W	0 51	3	6.14	A_0	1½-1½-1½	
0 13W	0 14	3	7.33	F_2	1½-1½-1½	N 2199.40 in clear field
0 05W	24 47	3	7.49	K_0	1½-1½-1½	
0 37W	24 45	3	7.55	M_a	1½-1½-1½	Hazy and foggy. Star is small and not
0 40W	41 15	3	7.07	K_0	1½-1½-1½	
0 11W	13 33	3	7.41	F_0	1½-1½-1½	
0 37W	41 30	3	7.01	K_2	1½-1½-1½	
0 02E	7 0	3	6.36	A_0	1½-1½-1½	
0 05E	51 1	3	6.24	A_0	1-1½-1½	Another star — finder could not see [illegible]
0 18W	52 10	3-2	7.41	K_0	[illegible]	[illegible]

Date Sunday Aug 8-9/13 - IVa **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle
9076	HD 156284	17 11.6	+23 52	1.25	Ex 30	S.1 .038	+25.8°C	21 15	22 35	4	
9077	187382	19 54.3	+01 07	"	"	"	23.7	22 41	23 37	1	
9078	199442	20 52.1	+00 05	"	"	"	23.6	23 42	00 48	2	
9079	202931	21 14.1	+10 47	"	"	"	23.5	00 52	02 06	3	
9080	217019	22 25.0	3 15	"	"	"	23.4	02 09	03 21	4	
9081	218261	22 21.5	+19 22	"	"	"	23.2	03 46			
	Sun-Zenith distance				7°-6°						

Tuesday Aug 6-7th

Cloudy - clearing occasionally after midnight with long lanks

of clear sky and clearing altogether at 3h 42m

Wednesday Aug 7-8th

Clear at first. Cloudy at 1h 30m

Opened up and set on star 115 in hopes of plotting objects "hanging" by them & to find image quite faint. Sky mucky in parts 10.15

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
2 12 W	+23 47	0	7.17	K2	1½-1½-1½	Focus out 23.40±
0 31 W	+01 13	1	7.13	G5	1½-1½-1½	hazy - seeing varied
0 44 W	+00 14	1-2	7 33	K2	1½-1½-1½	
1 41 W	+10 58	1-2	7.50	K5	1½-1½-1½	
1 32 W	+03 28	1	7 50	K2	1½-1½-1½	
2 22 N	+15 34	1	6 72	F8	1½-1½-1½	hazy clouds in from W [illegible] the beginning of exposure. [illegible] with the first thought exposure to-gave 1.2

Aug 11 +38.0 +16.2 -11.3 MT 1(S) 20 C

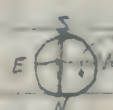
Aug 13 -16.6 00.0 WREN

Date Saturday Aug 14-15/43 - A Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End
0352	HD170829	18 26.4	-20 46	T 25	E103a-O	Slit .008	24.6	20 43	21 45	2	
0353	194102	19 20.5	79 21	"	"	"	24.6	21 56	23 11	3	
0354	197764	20 46.6	65 11	"	"	"	24.6	23 17	2345	4	
0355	191372	20 04.5	67 45	"	"	"	24.6	22 58	0	1	
	212150	22 7.1	76 00	"	"	"				2	

Adjusted setting circle for new guiding eyepiece
Focus left at 23.4
Light clouds moving in from west, but should not affect
work in progress as additional exposures are
considered necessary.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comb	REMARKS
0 29W	20 47	0-1	737	G_2	1½-1½-1½	
0 02E	79 29	1	606	A_2	1½-1½-1½	
0 10W	53 16	1	663	F_2	1½-1½-1½	
1 22W	67 50	1-2	791	M_2	1½-1½-1½	
			656	A_0		



HD 190974 AD also in field. Some fair
Clouding up from north, alternately clear
& 1 tenth. Stellar cloud bank in north which
is moving rapidly. Closed up at 2300 hr E.D.T.

Date Sunday Aug 15-16/43 No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H.	Hour Angle End
9086	H.D. 155646	17 07·8	+00 29	1-25"	E-103a-O	Sch .008	+23·7C	20 05	21 05	2	I II W
9087	176981	18 57·6	+08 14	"	"	"	+23·6	21 11	22 19	3	
	Focus test - outside shutter				7s-6s						

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
						Focus left at 23.40±
	1 11 W	+00 24	0	6.94	Fs	1½-1½-1½
		+08 17	1	7.69	K2	1½-1½-1½ * var? pairing Ther Nests getting increasingly thicker 11.15 D.S.T. - star gone 11.20 - no signs of clearing 11.45 - Clouds up. Sky looking 1.45 - Clearing again 2.00 - still cloudy 2.45

	MC	SC	SW	MT	ST
Aug. 16	+05.2	+01.2	-46.4	$-10^s.4$	$+0^m.1$

Date Monday Aug 16-17/43 No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End
7088	H.D. 162468	17 46.1	+11 59	1-25"	E-103a-O	Sel. .008	+24.0°C	20 05	21 49	4	1:2N
7089	177199	18 58.6	+19 31	"	"	"	23.7	21 53	23 41	1	2:02
7090	199941	20 55.2	+16 26	"	"	"	23.2	23 46	0 56	2	3:N
7091	206040	21 34.3	+53 36	"	"	"	23.1	1 13	[illegible]	3	
7091	Same Territorial three base. 7°.6°										

Sunday Aug 15 Clear

Cloudy at night Cloudy most of morning Clear afternoon and evening

Cloudy at 2 A.M. Clear at 4 A.M. Cloudy at 1 P.M. Clear at 1:45.

Rather strong N.W. wind at beginning of night

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
					Focus left at 23.40±
1 22W	+11 58	0	7·42	K2 1½-1½-1½	
2 02W	+19 35	0	7·25	K0 1½-1½-1½	scattered clouds 11:10 D.S.T. - 11.25. Trace
1 20N	+16 35	0	6·87	F2 1½-1½-1½	clouds 11 55 - 01.00 ; 01 50 - 02 05
	+53 46	0-1	6·98	G5 1½-	- to change in temp: of spectrograph. Clouds 2-10 - star gone for good (2:10 D.S.T.) Still cloudy 4.00 - cloud up.

I think all the bright (blurred) [illegible] are unresolved stars. The real stars and the unresolved ones [illegible] but not the faint ones either.

Alex

Date Wednesday August 18-19/43/L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9092	HD. 160677	17 36.2	31 15	I 25	E 103-0	Set .008	19.4	20 18	21 30	1	1 20 W
9093	" 173383	18 39.9	39 13	"	"	"	19.4	21 35	22 35	2	1 22 W
9094	" 193345	20 14.8	12 36	"	"	"	19.5	22 39	23 39	3	1 11 W
9095	" 206532	21 32.3	45 18	"	"	"	19.3	00 04	01 04	4	1 09 W
9096	" 222652	23 37.7	61 01	"	"	"	19.2	01 25	02 25	1	1 14 W
9097	" 3873	00 49.4	48 09	"	"	"	19.2	02 30	04 20	2	1 57 W
	Focus Test		Outside through haze								

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
1 20 W	31 13	1	7.65	Ma	1½-1½-1½	Focus set at 23.46
1 22 W	39 14	2-1	7.73	Ks	1½-1½-1½	
1 11 W	13 01	1-2	7.35	Ma	1½-1½-1½	
1 09 W	45 30	1-2	7.82	Ma	1½-1½-1½	
0 14 W	61 20	2-1	7.61	Ks	1½-1½-1½	
0 57 W	25 22	1	7.75	Ma	1½-1½-1½	
					7.5	

Date Thursday August 19-20/43 A Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle
9098	HD166207	18 04.5	50 49	T-25	F-103a-O	Slit .008	22.2	20 14	20 40	3	
9099	HD173920	18 48.9	54 47	"	"	"	22.1	20 44	21 18	4	
~~9100~~ !	HD185264	19 33.2	50 01	"	"	"	22.0	21 24	22 14	1	

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
						Focus set at 23 43±
0 07 N	50 49	2	7.35	Ko	1½-1½-1½	
0 06 N	54 49	2-3	7.04	Go	1½-1½-1½	Light clouds observed in sky completely out of view for a moment or so. Seeing poor to fair. Star is not visible for at least 3 minutes. Star is visible and stays in view for 3 minutes. Star is visible and stays in view for 3 minutes. Image is round brightness for 21 55 & 22 07 clouds
0 12 W	50 05	1-2	7.41	Go	1½-1½-1½	Star is D 1932 but did not see any clouds moving in with the guider at 22.30 except for one pass and a few wisps. Closed up at 23.00
						Partly clear at 1.0 m FOT but light clouds kept coming up making it unable to get image of star

Property of the Lick Observatory

Date Friday, August 20-21 1942, U.L. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9101	HD 159.222	17 28.4	+34 21	I-P	E-1030-0	S.T .028	22.8	20 53	21 43	1	1:1
9102	176776	18 56.8	+19 10	"	"	"	22.8	21 47	22 27	2	1:1

Cloudy all day; breaking early evening.
Partly cloudy at dark.

Focus at 22.42

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
1 5 W	+34 18	1-2	732	G5	1½ 1½ 1½	Cloudy all day at first. Expected [illegible]
1 15 W	+19 13	1-2	751	K2	1½ 1½ 1½	Skies cleared off during last half. Let go. OK
						M T W. S T W.
						Aug 21 -05.8 +0.2 W.B.E.N.

Date Saturday Aug 21 22 23 A. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9103	HD 186121	19 37.5	42 50	I-25	F-103a-O	Sl/.008	23.0	20 59	21 49	3
9104	193944	20 19.9	53 16	"	"	"	23.0	2 54	22 34	4
9105	196379	20 39.9	51 31	"	"	"	23.0	22 40	23 32	1
9106	194181	20 43.5	32 35	"	"	"	23.0	22 56	23 36	2
9107	215314	21 29.4	49 30	"	"	"	23.0	23 41	00 [illegible]	3
9108	[illegible]	21 39.9	29 37	"	"	"	23.0	20 40	00 [illegible]	[illegible]
9109	215030	22 39.2	41 03	"	"	"	23.0	[illegible]	[illegible]	[illegible]
9110	216[illegible]	23 25.1	44 31	"	"	"	22.9	01 31	[illegible]	[illegible]
9111	225236	23 59.8	26 26	"	"	"	23.1	02 06	[illegible]	3
	~~[illegible]~~	~~[illegible]~~	34 ½	"	"	"	22.9	[illegible]	[illegible]	4

Thick haze with clouds all around horizon at sunset. Began observing about 7:30 EDT

54

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comb	Focus unchanged REMARKS
0 10E	42 56	2	7.74	Ma	1½-1½-1½	still hazy haze around horizon at 11 45 EDT,
0 05E	53 24	2	7.56	K5	1½-1½-1½	
0 01E	51 40	3	6.94	F0	1½-1½-1½	
0 32W	52 46	3-2	7.43 7.57	K2	1½-1-1½	Fog rising all around
0 02W	49 42	3-2	5.76	A0	1½-1½-1½	
0 04W	89 47	2	7.47	K0	1½-1½-1½	Fog thinning around edge. Fog thickening
0 11W	41 15	3-2	7.07	K0	1½-1½-1½	
0 19W	44 45	2-3	7.16	G5	1½-1½-1½	Light clouds
0 27W	26 20	3	7.59	K2	1½-1½-1½	very hazy
	54 54	3	6.58	A2	1½-1½-1½	[illegible]

Clouded up at 03 30 but very hazy and cloudy in south and cloud up at 03 52

Date Sunday Aug 22-23/43 - No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End
						Set.					
9112	H.D. 164780	17 57.7	+75 10	1-25"	E-103a-O	.008	+25.1°C	20 14	20 58	1	-1 46
9113	174205	18 44.3	70 41	"	"	"	25.1	21 04	21 44	2	0 44
9114	184958	19 31.8	70 47	"	"	"	25.1	21 49	22 13	2	1 26W
9115	190252	19 59.0	70 05	"	"	"	25.1	22 17	22 45	4	1 31W
9116	196787	20 34.5	81 05	"	"	"	25.1	22 56	23 10	1	0 52W
9117	197508	20 39.1	83 17	"	"	"	25.1	23 16	23 37	2	0 41W
9118	203630	21 18.4	29 53	"	"	"	25.2	00 04	00 19	3	1 0W
9119	213720	22 28.4	53 31	"	"	"	25.0	00 50	01 19	4	1 31W
9120	217314	22 54.8	52 06	"	"	"	25.0	01 23	01 53	1	1 41W
9121	220130	23 16.7	61 40	"	"	"	25.0	01 57	02 33	2	1 0W
9122	222670	23,37.6	63 58	"	"	"	25.1	02 37	03 07	3	1 2W
9123	2904.00	2.13	70 26	"	"	"	25.1	04 24	04 56	1	1 2W
	Ignore 2nd - outside the zone 7°-6°										

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
						Focus each 23:39 ±
0 46W	+75 10	1-2	7.44	K0	1½-1½-1½	Waited until star crossed meridian
0 44W	70 43	2-3	7.63	K2	1½-1½-1½	before starting exposure.
0 26W	70 52	3	7.32	K2	1½-1½-1½	
0 31W	70 12	2-3	7.24	G5	1½-1½-1½	
0 22W	81 14	3	6.62	K0	1½-1½-1½	Wide optical double - took brighter
0 43W	83 25	1-0	6.22	A2	1½-1½-1½	← found identical on 1 min post-mer.
1 09W	30 03	1-2	7.28	K0	1½-1½-1½	and checked on ε Cephei. Thick misty
0 33W	53 45	3	7.47	K0	1½-1½-1½	clouds 23 43 - 00 08
0 41W	52 21	3	7.48	K2	1½-1½-1½	
1 00W	61 55	3	7.61	K5	1½-1½-1½	foggy
2 13W	64 13	3-0	8.20	M0	1½-1½-1½	clouds 03 50 - 04 15 - very foggy - thereafter
2 12W	70 40	1-0	6.36	A0	1½-1½-1½	← to bright - thin hazy - weather deteriorating.

Date Tues. Aug 24-25 Y-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9124	HD 162 774	17 47.6	1 20	I-25"	E103a-O	0-8	24.0	7 46	8 56	1	58 W
9125	HD 172 631	18 36.2	30 46	"	"	"	24.0	9 01	10 11	2	80 W
9126	HD 185 436	19 34.0	20 34	"	"	"	24.1	10 16	11 36	3	42 W
9127	HD 207 223	21 42.3	16 44	"	"	"	24.0	11 41	00 21	4	
9128	" 218103	23 00.2	00 46	"	"	"	24.0	00 26	01 40	1	
9129	" 218660	23 03.9	03 41	"	"	"	23.9	01 41	02 41	2	
9130	" 7721	01 11.9	31 14	"	"	"	24.0	02 35	04 24	3	
	Focus Test			Orders 1 and 2 fuzzy							

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS Focus 23.39
58 W	1 18	0	7 33	KS	1½-1½-1½	Upset
80 W	30 46	0	7 48	KO	1½-1½-1½	"
1h 42 W	20 39	0-1	7 50	KO	1½-1½-1½	"
0 23 W	16 53	0-1	6 52	FO	1½-1½-1½	
0 [illegible] W	00 07	0	7 38	KO	1½-1½-1½	
1 34 W	63 [illegible]	1-2	7.41	KO	1½-1½-1½	
1 53 W	31 [illegible]	1	7.86	KO	1½-1½-1½	
					7.5	

Star seemed a [illegible] off stage. Time lost in checking [illegible]

[illegible] the following on toward end of Sept

Date Wednesday, August 25-26, 1943 H-L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
9131	HD 175679	18 57.4	+02 21	I-25"	E-103a-O	5cf 008	+24.7	20 52	21 52	1
9132	186726	19 41.4	+40 28	"	"	"	+24.7	21 57	23 07	2
9133	195404	20 45.0	+05 11	"	"	"	+24.6	23 10	23 55	3
9134	208696	21 52.2	+61 04	"	"	"	+24.6	00 03	00 59	4
9135	BD 7°5773	22 57.3	56 34	"	"	"	+24.6	01 03	02 09	1
9136	C4510	01 05.7	09 22	"	"	"	+24.6	02 15	03 [illegible]	2

Outside through haze

Clouds most of day + early evening. Hard to get more than Lick, but clouds. Seeing lots.

60

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
5h	0 54 W	+03 22	0-1	7.28	K0	1½ 1½ 1½	Light cirrus clouds at first. Again late.
	20 W	+40 35	1	7.79	Ka	1½ 1½ 1½	Wind = dust, hair off slit jaws - but found it in spite!
	1 04 W	+09 30	1	7.30	K0	1½ 1½ 1½	Cirrus down somewhat.
	1 02 W	61 15	1	7.40	K5	1½-1½-1½	Some high clouds
	1 07 W	16 41	1	7.97	K2	1½-1½-1½	Hazy N wind, dome rattles, cirrus
	1 12 W	04 34	1-2	7.98	F2	1½-1½-1½	Thick clouds, sky clearing to
						7-5	West end of slit

Date Thurs. Aug 26-27 Y-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9137	HD 163840	17 532	24 01	I-26"	E103a-O	.009	+21.6	7 42	8 18	3	
9138	HD 171994	18 326	16 07	"	"	"	21.0	8 23	9 01	4	
9139	HD 183387	19 242	0 02	"	"	"	21.3	9 07	9 47	1	
9140	HD 186702	19 409	34 10	"	"	"	21.1	9 52	11 12	2	

Drip marks on mirror

Focus 23 44

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
23 W	23 58	1-2	6.92	GO	1½-1½ 1½	
26 W	16 06	2	738	KO	1½ 1½ 1½	
20 W	00 05	2	759	K2	1½ 1½ 1½	
89 W	34 16	2-1	8.12	Ma	1½ 1½ 1½	a little Thick

Sky beating again around midnight, prepared to open up, sky settling in again. Late in Night clear to Nebar limit 2.00 to diff from 2V's or

Date Fri 0.-433-8/43 Y-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
9141	HD 157967	17 21.4	17 00	I-25"	E103a-O	.008	17.9	7 40	8 20	3	
9142	HD 162468	17 46.1	11 59	"	"	"	17.9	8 28	9 08	4	
9143	HD 183589	19 25.2	2 41	"	"	"	18.0	9 13	9 49	1	
9144	HD 186532	19 39.9	55 13	"	"	"	17.9	9 56	10 36	2	
9145	HD 191096	20 03.1	56 03	"	"	"	17.9	10 39	10 53	3	
9146	HD 197939	20 41.8	56 08	"	"	"	17.9	10 56	11 26	4	
9147	HD 204599	21 24.6	59 19	"	"	"	17.9	11 30	12 00	1	
9148	HD 209112	21 55.9	62 13	"	"	"	17.8	12 04	12 32	2	
9149	[illegible]	[illegible]	[illegible]	"	"	"	17.8	12 38	01 00	3	
9150	[illegible]	23 11.6	61 36	"	"	"	17.8	01 04	01 38	4	
9151	[illegible]	23 58.7	60 09	"	"	"	17.8	01 43	02 25	1	
9152	6211	00 38.1	51 58	"	"	"	17.8	02 33	03 15	2	
9153	10110	01 38.8	53 22	"	"	"	17.8	02 59	03 41	3	
9154	13318	02 09.5	47 21	"	"	"	17.8	03 31	04 09	4	
9155	19143	03 49.8	50 37	"	"	"	17.8	04 09	04 35	1	
9156	19328	03 56.7	54 47	"	"	"	17.8	04 39	05 03	2	

Focus 23.50

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
60m W	16 56	2-3	764	Mb	1½ 1½ 1½	some clouds
1 23m W	11 55	2-3	742	K2	1½ 1½ 1½	
26 W	2 46	3	756	K5	1½ 1½ 1½	
59 W	55 18	3	787	Ma	1½ 1½ 1½	
52 W	56 10	3	646	F0	2 - 2	
47 W	56 16	3	759	Ma	1½ 1½ 1½	
38 W	59 29	3	779	Ma	1½ 1½ 1½	
C 33 W	42 25	3	751	Mb	1½ 1½ 1½	
C 04 W	43 35	3	733	K2	1½ 1½ 1½	
C 44 W	61 30	3	780	K5	1½ 1½ 1½	
C 50 W	60 42	3	759	Mb	1½ 1½ 1½	
C 01 E	52 18	3	734	Ma	1½ 1½ 1½	
C 50	43 32	3	771	K2	1½ 1½ 1½	
C 06 E	47 32	3	744	K5	1½ 1½ 1½	
C 13 E	51 00	3	770	K5	1½ 1½ 1½	
C 00 W	60 08	3	778	K2	1½ 1½ 1½	

Date Sat Dec 28-29-43 A-No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H
9157	HD 185436	19 34.0	+20 34	7.25"	E 103a O	.009	20.4°C	21 07	21 37	3
9158	190771	20 01.5	+38 12	"	"	"	20.4°C	21 45	22 15	4
9159	200327	20 58.9	+44 25	"	"	"	20.4°C	22 19	22 55	1
9160	203857	21 19.7	+36 55	"	"	"	20.3°C	23 04	23 50	2
9161	209258	21 59.9	+70 31	"	"	"	20.3°C	23 54	00 44	3
9162	212150	22 17.1	+76 00	"	"	"	20.0	00 52	01 14	4
9163	221861	23 30.6	+71 05	"	"	"	20.0	01 21	01 45	1
9164	224309	23 51.7	+82 38	"	"	"	20.0	01 50	02 06	2
9165	4440	00 41.6	+72 08	"	"	"	20.0	02 12	02 32	3
9166	7732	01 12.0	+77 02	"	"	"	20.0	02 36	03 00	4
9167	12005	01 52.8	+77 26	"	"	"	20.0	03 04	03 36	1
9168	18345	02 51.8	+04 05	"	"	"	20.0	03 43	04 21	2
9169	27386	04 14.2	+09 53	"	"	"	20.0	04 26	05 00	3
	Iron Foil - out Tide three hour - 7^{s}.6^{s}									

Focus set 23.45+

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
C 19W	20 40	3-2	7.50	Ko	1½-1½-1½	hazy - seeing very variable.
O 20W	38 19	3	7.34	Gs	1½-1½-1½	sky very hazy - no stars for star test - 2nd guide star
C 32W	44 34	3	7.73	Mc	1½-1½-1½	
O 37W	37 06	3	7.77	Ks	1½-1½-1½	
O 55W	74 44	3	7.82	Ko	1½-1½-1½	image fading out 00.15 (murky clouds)
1 05W	76 13	3	6.56	Ao	1½-1½-1½	get strong! - very hazy
O 21W	71 18	2-3	7.13	Ko	1½-1½-1½	
O 21W	32 52	3	6.42	Ao	1½-1½-1½	get strong!
O 04E	72 21	3	7.04	Ko	1½-1½-1½	
O 01E	77 17	2-3	7.16	Gs	1½-1½-1½	
O 12E	77 37	2-3	7.35	Ko	1½-1½-1½	
O 23E	04 15	2-3	7.66	Mc	1½-1½-1½	
1 07E	01 57	3	7.62	Ko	1½-1½-1½	

dome turning frequently failing.

Date Sunday Aug 29-30 Y- No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
		h m	° ′								
9170	HD 159354	17 29.2	14 36	I·25	E103a-O	008	+22.1	7 41	8 47	4	27m W
9171	HD 176541	18 55.7	22 40	"	"	"	+22.1	8 51	9 41	1	55 W
9172	HD 194344	20 19.5	0 45	"	"	"	22.0	9 49	10 09	2	::
9173	"	"	"	"	"	"	22.0	10 09	10 29	2	:: W
9174	HD 197812	20 40.9	17 44	"	"	"	22.1	10 33	11 33	3	5m W
9175	HD 207446	21 43.9	36 06	"	"	"					

Focus 23.421

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
87m W	14° 52'	2	8.01	Mb	1½ 1½ 1½
55 W	22 42	2	7.76	Ma	1½ 1½ 1½
00	0 50	3	6.11	A0	2½ - 2½ } Setting 3
20 W	"	3	6 11	A0	2½ - 2½ } " 8
62m W	17 50	3	Var 7.8	Mb	1½ 1½ 1½ star veiled, shut off by clouds
			7.78	K5	

Sky filling in 00.00 - still veiled 01.30 - clouded up. No signs of clearing 02.00

MC SC SI MP FT

Aug 3 -11.3 +6.3 +1.3 +10.5 +6.3

Date Mon Aug. 30-31 Y-N-No **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle limit
9175	HD 162113	17 44.3	2 00	I-25"	E103a-O	008	23.6	7 38	8 38	2
9176	191655	19 16.2	+37 09	"	"	"	23.5	20 44	21 24	3
9177	198149	19 48.7	+36 11	"	"	"	23.5	21 32	22 22	4
9178	197249	20 27.4	+17 11	"	"	"	23.5	22 30	23 32	1
9179	206509	21 37.4	+54 25	"	"	"	23.4	23 38	00 34	2
9180	215273	22 43.7	+36 52	"	"	"	23.4	00 52	01 14	3
9181	221776	23 23.9	+37 27	"	"	"	23.5	01 17	01 59	4
9182	224103	23 57.6	+22 05	"	"	"	23.5	02 02	02 58	1
9183	7647	01 11.3	+44 23	"	"	"	23.4	03 02	03 50	2
9184	26723	04 10.2	+05 57	"	"	"	23.4	03 58	04 28	3
9185	26713	04 10.1	+05 57	"	"	"	23.4	04 36	05 06	4
	Focus Set - on Table this hour - 7^S-6^S									

Focus 23.40

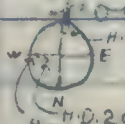
ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	1 08W	01 56	2-1	7.46	KO	1½-1½-1½	
	0 22W	37 14	2	7.14	G5	1½-1½-1½	
	0 48W	36 16	2	7.33	Ko	1½-1½-1½	
	1 09W	17 18	2-1	7.27	Ko	1½-1½-1½	
	1 12W	54 37	1	7.16	Ko	1½-1½-1½	
	0 46W	37 06	2-3	7.00	Ko	1½-1½-1½	seeing not available
	0 44W	37 43	2-3	7.52	Ks	1½-1½-1½	
	1 21W	22 19	2-1	7.65	IIIa	1½-1½-1½	
	1 14W	44 37	2	7.66	Ks	1½-1½-1½	
	1 37E	06 02	2	7.10	Gs	1½-1½-1½	
	0 47E	06 03	2-3	7.72	Gs	1½-1½-1½	

Date Wednesday Sept 1-2/43 - No. 2 Julian Day 23

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End
						Sat.					
9186	H.D. 200661	20 59.7	+02 33	1-25"	E-103a-O	.008	28.7°C	22 23	23 00	1	1 [illegible]
9187	" 214298	22 32.1	+12 04	"	"	"	28.5	00 04	01 12	2	02 [illegible]
9188	" 221345	23 30.9	24 01	"	"	"	28.5	01 16	02 30	3	42 [illegible]
9189	" 8359	01 18.0	17 37	"	"	"	28.3	02 35	03 30	4	00 [illegible]
9190	" 15933	01 24.2	05 07	"	"	"	28.3	04 04	04 50	1	49 [illegible]
	Plate [illegible]			Outside thru L base							

Thunder showers during first part of evening — clearing off 9:30 - 10:00 E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
1 21 W	+02 42	1-0	7.55	K0	1k-1k-1k Focus at 23.32
1 22 W	12 15	1-2	7.71	K5	1½-1½-1½
1 42 W	24 14	1-2	7.95	M0	1½-1½-1½
1 00 W	20 09	1-2	7.48	15	1½-1½-1½
0 49 N	09 16	1-2	7.30	10	1½-1½-1½
					7-5



hazy

MC SC SW NW SW

Apl 3 -24·3 +7·5 +00·3 +2·6 +2·2

Date Thur. Sept 2-3 V-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Hilt	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End
9191	HD162826	17 47.9	40 05'	I-25'	E103a-D	0.8	25.2	7 30	8 20	2	5.3W
9192	HD169221	18 18.6	49 40	"	"	"	25.2	8 25'	9 [illegible]	3	08
9193	~~HD 200663~~	~~20 59.7~~	~~01 54~~	"	"	"	~~25.0~~	~~10 20~~		4	
9193	~~HD 212958~~	~~22 23.2~~	~~31 20~~	"	"	"					

Form 23-37.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
58W	40 04	2-1	708	G0	1½1½1½	
1 08W	49 42	1	751	K0	1½-1½	clouds 9:00
	02 00	1	720	G5	1½	clouds
			733	K2		ng

Date 7 Jan. 1943 Exp. 3-4 N-No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9193	HD 162734	17 47.4	+ 15 22	1-25	E-103a-O	.008	+23.2	19 32	21 06	1
9194	187038	19 42.7	+ 32 38	-	-	-	+23.1	21 16	22 41	2
9195	208110	21 43.9	+06 23	-	-	-	+23.0	22 50	00 36	3
	Some tick-out tide thin bars 7^{s}-6^{s}									

Focus set 23·42 E

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
1 43 W	+15 18	0-1	7·5	K0	1½-1½-1½	[illegible]
1 23 W	+32 42	0-1	7·25	K2	1½-1½-	very hazy - can barely see [illegible]
1 18 W	+06 33	0-1	7·4	G0	1½-1½-1½	[illegible] 23 05 sky filling in 0200 - to [illegible] one-half of time [illegible] Cloud up 01·00 - done extremely well - mirror O.K Unable to put hot air mirror in - point inside of tube still quite tacky

Date Sunday 5-4-15-6 Y- No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End
9196	HD181122	19 14.1	9 27	I.25"	F1030-0	.008	23.0	9 02	9 52	4	
9197	HD196610	20 33.4	17 55	"	"	"	22.9	10 01	10 45	1	
9198	HD200663	20 59.7	01 54	"	"	"	22.9	10 50	11 34	2	
9199	HD212988	22 23.2	31 20	"	"	"	23.0	11 40	00 32	3	
9200	H.D. 213589	22 [illegible]	18 57	"	"	"	22.8	00 39	01 55	4	

Focus not changed

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comb	REMARKS
76W	9 28	2	738	KO	1½-1½-1½	Rain in p.m. clearing about 8
49W	18 02	3	763	MC	1½-1½-1½	
1 08W	2 01	3-2	720	G5	1½-1½-1½	
0 18W	31 32	3-2	733	K2	1½-1½-1½	
2 09W	19 03	2	752	KO	1½-1½-1½	[illegible]

[illegible] gone completely at 1:55 — no signs of clearing

		MC	SC	SW	MT	ST
					$_{s}$	^{m}
Sep. 7	12	-06·6	+11·3	-1 13·7	-19·6	+0·1
						reset

Date Sunday 1943 Sep 7-8 N-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9201	HD 167304	18 09·5	+41 08	1·25	E-103a-a	0·008	+21·3	19 17	20 17	1
9202	176107	18 56·5	+50 41	–	–	–	+21·4	20 25	21 09	2
9203	189127	19 53·4	+57 59	–	–	–	+21·3	21 16	22 10	3
9204	199611	20 53·3	+50 21	–	–	–	+21·3	22 15	22 35	4
9205	205314	21 29·1	+49 30	–	–	–	+21·3	22 41	22 55	1
9206	206731	21 39·0	+49 08	–	–	–	+21·3	23 01	23 39	2
9207	213248	22 25·0	+63 34	–	–	–	+21·3	23 45	00 22	3
9208	222688	23 32·7	+61 07	"	"	"	+21·2	00 38	01 29	4
9209	2052	00 27·7	+54 21	"	"	"	+21·2	01 44	02 52	1
9210	4321	00 46·6	+54 45	"	"	"	+21·2	02 21	03 13	2
9211	7158	01 18·2	+46 53	"	"	"	+21·2	02 58	03 46	3
9212	20192	03 09·3	+44 58	"	"	"	+21·2	03 44	04 00	4

Green Filt — Outside through Case

Focus set 24.43 ±

Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
0 17	0 53 W	+41 07	0-1	7.36	Ko	1½-1½-1½	seeing variable
1 00	0 58 W	+50 42	0-1	7.15	G5	1½-1½-1½	
2 0	1 03 W	+57 04	1-0	7.19	Ko	1½-1½-1½	
2 [illegible]	0 28 W	+56 28	1	6.08	Fo	1½-1½-1½	
2 5[illegible]	0 11 W	+49 42	1	5.76	Ao	1½-1½-1½	Qt strong
3 3[illegible]	0 46 W	+49 18	1-2	7.12	Ko	1½-1½-1½	
[illegible]	0 34 W	+63 46	1-2	7.38	Ko	1½-1½-1½	
[illegible]	0 43 W	[illegible]	1-2	7.1	K2	1½-1½-1½	
[illegible]	0 4 W	64 33	1-2	7.14	Ko	1½-1½-1½	
[illegible]	0 37 W	54 57	2	6.58	A2	1½-1½-1½	
[illegible]	0 19 W	47 07	2	7.41	Ko	1½-1½-1½	
[illegible]	0 34 W	45 07	2	7.77	Ma	1½-1½-1½	
						7.5	

Focus at 24.43 unless [illegible]
23.43

Plates Kept.

Date Wed Sept 8-9 Y-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
9213	HD 189127	19 53.4	57 59	I-25"	F103a-O	0.08	19.7	9 58	10 34		1
9214	HD 203582	21 11.7	63 59	"	"	"	19.8	10 41	11 15		2
9215	HD 206040	21 34.3	53 36	"	"	"	19.5	11 19	00 19		3
9216	HD 217944	22 59.2	59 01	"	"	"	19.5	00 24	01 14		4
9217	" 4881	00 46.0	51 02	"	"	"	19.5	01 26	01 58		1
9218	" 6025	00 56.5	50 30	"	"	"	19.5	01 33	02 03		2
9219	" 9712	01 30.0	40 34	"	"	"	19.5	02 09	02 38		3
9220	" 14393	02 18.8	59 45	"	"	"	19.5	03 07	03 [illegible]		4

Focus 23.47±

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
	1 30 W	58 05	2-1	719	K0	1½1½1½	Cloudy in early evening
	53 W	64 08	1	697	G0	1½1½1½	slightly hazy
	1 35 W	53 46	1-2	698	G5	1½1½1½	clouds - slightly hazy
	0 54 W	52 12	2	728	G5	1½-1½-1½	slightly hazy
	0 29 E	51 15	2	624	A0	1½-1½-1½	OK
	0 33 E	50 43	2	670	A=	1½-1½-1½	OK
	0 [illegible] W	40 17	2-1	739	K0	1½-1½-1½	OK
	0 43 W	[illegible] 34	2-1	760	K0	1½1½1½	Clouds before dawn focus OK

Date Thursday Sept 9-10/43 No-2 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End
9221	H.D. 182272	19 18·8	+33 19	1-25"	E-103a-O	Sl. 008	+14·8°C	20 28	21 40	1	
	196134										

Cloudy during early evening, clearing
somewhat by 8.15 (05 T), opening up Auto Shutter and
starting exposures as dense cloud banks moving in from N.W. - Clear 9.20

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
							Focus set 23.5-3t
5	1 15W	+33 25	1	7.30	Ko	1½-1½-1½	Clouds 21.00-21.15 ; 21.25-21.35
							more clouds 21.40 -
							Clearing around midnight, but
							cloudy late on

Date Friday 1943 Sep. 10-11 N. No. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9222	HD 200663	20 59.7	+01 54	1:25	E-1023Q	.008	+14.3	22 02	22 48	2
9223	205110	21 48.9	+06 23	–	–	–	+14.2	22 54	[illegible]	3
9224	21+979	22 16.9	+10 26	–	–	–	+14.1	23 39	01 21	4
9225	21[illegible]2.00	21	7+54 21	–	–	–	+13.8	01 36	02 [illegible]	1
9226	1[illegible]5.00	10	3+68 17	–	–	–	+13.8	02 26	03 10	2
9227	5257	1[illegible]	50 4+68 15	–	–	–	+13.8	03 14	03 54	3
9228	18991	02 5	12+55 41	–	–	–	+13.8	04 00	05 10	4
	Sensitometer exposure						1[s]-6[s]			

Mostly cloudy all day. Rain during evening. Started to clear about 21 h. Stayed evening because of darkness.

86

Focus set 23.54

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
0 45 W	+02 01	0-1	7.20	G5	1½-1½ 1½	Seeing variable. OK
0 42 W	+06 34	1	7.14	G0	1½-1½-1½	Slightly Stormy
1 52 W	+30 40	1-0	7.66	K5	1½-1½-1½	Lazy OK
0 50 W	+54 35	1	7.14	K0	1½-1½-1½	" Too Stormy
1 27 W	+69 00	1-0	6.76	F2	1½-1½-1½	Too Stormy
2 01 W	+68 27	1-0	6.66	F0	1½-1½-1½	Slightly stormy
1 09 W	+55 50	1-0	7.50	K0	1½-1½-1½	" Stormy

Through

Date Saturday Sept 11-12/43 No-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Ang End
9229	H.D. 172424	18 35.0	+07 16	f25"	E.103a.O	.008	+13.0°C	19 11	20 07	1	0 33
9230	176939	18 57.5	+24 53	"	"	"	+13.0	20 12	21 28	2	1 32
9231	196124	20 3.3	+41 25	"	"	"	+12.9	21 33	22 21	3	0 53
9232	202720	21 12.7	+41 50	"	"	"	+12.9	22 24	23 18	4	0 54
9233	213242	22 25.0	+62 34	"	"	"	+12.9	23 24	00 16	1	0 52
9234	223-13	23 24.1	22 31	"	"	"	+12.9	01 [illegible]	01 12	2	0 [illegible]
9235	7351	01 08.[illegible]	28 01	"	"	"	12.9	01 16	02 40	3	1 24
9236	12812	02 01.0	07 46	"	"	"	12.9	02 45	04 15	4	1 30
9237	24802	03 57.5	24 12	"	"	"	12.8	04 50	05 08	1	0 18
	Focus			Outside through Sun							

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
						Focus at 23.57 ±
0 32 W	+07 16	1-0	7.36	K0	1½-1½-1½	good
1 32 W	+24 56	1-2	7.99	K2	1½-1½-1½	
0 52 W	+41 34	1-2	7.43	K0	1½-1½-1½	
1 07 W	+42 00	1-2	7.60	K2	1½-1½-1½	
0 42 W	+63 46	0-1-2	7.38	K0	1½-1½-1½	
0 49 W	+28 43	1-2	7.45	K0	1½-1½-1½	
0 32 W	28 14	1-2	7.95	M2	1½-1½-1½	
1 16 W	12 57	1-2	8.01	M2	1½-1½-1½	
0 10 W	24 18	1-2	7.38	K0	1½-1½-1½	
					7-5	

Date Sunday Sept 12-13 1906 **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang.
9238	HD 161832	17 42.7	39 22	I-25"	E103a-O	.008	+14.3	7 13	8 13	2
9239	HD 182635	19 20.5	36 15	"	"	"	+14.2	8 18	9 00	3
9240	HD 189942	19 57.5	36 49	"	"	"	+14.3	9 04	9 40	4
9241	HD 196642	20 33.6	37 58	"	"	"	+14.4	9 44	10 16	1
9242	HD 203886	21 19.9	24 06	"	"	"	+14.3	10 21	11 05	2
9243*	HD 207088	21 41.5	35 24	"	"	"	+14.1	11 09	11 49	3
9244	HD 215518	22 40.7	51 59	"	"	"	+14.2	11 52	00 46	4
9245	HD 224784	23 55.5	59 01	"	"	"	+14.2	00 51	01 31	1
9246	1527	00 14.4	40 10	"	"	"	+14.2	01 36	02 24	2
9247	7758	01 12.2	46 53	"	"	"	+14.1	02 28	03 20	3
9248	13013	02 02.3	43 58	"	"	"	+14.1	03 26	04 10	4

Focus Just outside this box 7^S-6^S

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comets	REMARKS
					Focus 23.55
1 35 W	39 18	1	7.56	KO	1½ 1½ 1½
44 W	36 20	2	7.45	KO	1½-1½-1½
47 W	36 56	2	7.39	KO	1½-1½-1½
48 W	38 06	2-3	7.32	KO	1½ 1½ 1½
50 W	24 15	3-1	7.42	KO	1½-1½-1½ Var seeing
67 W	35 36	3-2	7.60	KO	1½-1½-1½
1 11 W	52 13	2	7.73	K2	1½-1½-1½
0 41 W	59 13	2	7.37	KO	1½-1½-1½
1 15 W	40 36	2	7.41	KO	1½-1½-1½ hazy
1 13 W	47 28	2	7.41	KO	1½-1½-1½ hazy Tiny Flicker
1 14 W	44 11	2	7.28	G5	1½-1½-1½ star gone at 1:10

Date Monday 1943 Sept. 13-14 N-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End	
9249	HD 167304	18 09.5	+41 08	1-25	E-103a-O	.008	+14.8	19 07	19 55	1	
9250	176707	18 56.5	+50 41	—	—	—	+14.8	20 01	20 43	2	
9251	186998	19 42.5	+24 53	—	—	—	+14.7	20 49	21 21	3	
9252	194616	20 21.5	+19 31	—	—	—	+14.7	21 25	22 04	4	
9253	200661	20 59.7	+02 33	—	—	—	+14.7	22 11	22 53	1	
9254	208527	21 51.7	+20 48	—	—	—	+14.6	22 58	00 38	2	
9255	224188	23 [illegible]	25 24	"	"		+14.5	00 14	01 08	3	
9256	1124	01 11.9	31 14	"	"		+14.4	01 33	02 17	4	
9257	12459	01 51.2	13 00	"	"		+14.3	02 51	03 13	1	
9258	18060	02 39.1	15 29	"	"		+14.3	03 18	04 02	2	

Hour Vert. Outside through plate

Monday Sept. 15-16, 1943 - H Cloudy with rain all morning.

Partly clearing 11 - 1 A.M. Falling in completely overcast.

Focus 23.53 ±

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
0 54 W	+ 41 07	1	7.36	Ko	1½-1½-1½	Nine stars plotted.
0 56 W	+ 30 44	1-0	7.15	G5	1½-1½-1½	Seeing variable. Civil minute hand of Stranger or Chron not moving uniformly (near half hour).
0 47 W	+ 25 00	1-2	6.88	Fo	1½-1½-1½	half Plotted star 11 Psc on London (HO 136936) Clouds 21 08 - 13
0 52 W	+ 19 39	2	7.44	Ko	1½-1½-1½	
1 02 W	+ 02 43	2	7.55	Ko	1½-1½-1½	Trouble with star slow motion while setting
1 36 W	+ 20 58	2	7.80	Ko	1½-1½-1½	"
0 47 W	25 19	2	7.35	K5	1½-1½-1½	"
0 44 W	31 27	2	7.86	K0	1½-1½-1½	"
0 43 W	15 11	2-3	7.63	K0	1½-1½-1½	"
1 W	15 33	3	7.19	K0	1½-1½-1½	" Clouds
					7-5	

Date Thursday Sept 16-17 Y- No **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H
9259	HD 167654	18 11.1	2 22	I-25	E103a-O	008	+17.0	7 03	8 ~~03~~ 03	3
	HD 182488	19 19.8	33 01	"	"	"				
9260	HD 195181	20 43.5	52 58	"	"	"	+16.0	10 05	~~10 05~~ 10 35	

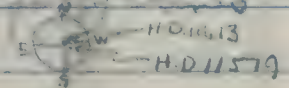
Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS Focus 23.50
1 12 ~~23~~ W	+2° 19'	0	766	Mb	1½-1½-1½	clouds at 8°03 (lightening)
			750	KO		
1 13 43 W	52 47	0-1	743	KO	1½-1½	clouds 10°30

Date Friday 1943 Sep. 17-18 N-No **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9261	HD 166411	18 05·4	+ 30 26	1-25	E 103a-O	·008	+12·7	18 58	20 10	1	1 29 W
9262	184977	19 31·9	+ 47 57	–	–	–	+12·4	20 16	20 46	2	1 9 W
9263	192535	20 10·3	+ 43 04	–	–	–	+12·3	20 50	21 34	3	0 44 W
9264	200740	21 00·2	+ 49 57	–	–	–	+12·3	21 38	22 30	4	0 56 W
9265	207446	21 43·9	+ 36 06	–	–	–	+12·2	22 16	23 32	1	1 7 W
9266	218416	23 02·8	+ 52 17	–	–	–	+12·2	23 41	00 21	2	0 41 W
9267	224870	23 56·3	+ 41 25	–	–	–	+12·0	01 24	01 04	3	0 38 W
9268	6497	01 00·9	+56 24	–	–	–	+12·0	01 04 01 08	01 48	4	0 40 W
9269	7067	01 03·0	+71 13	–	–	–	+12·0	01 52	02 32	1	0 41 W
9270	7725	01 12·8	+75 43	–	–	–	+12·0	02 36	02 50	2	0 14 W
9271	11618	01 48·2	+40 12	–	–	–	+12·0	03 00	02 50	3	0 10 W
9272	21179	03 20·0	+71 31	–	–	–	+11·9	03 57	05 29	4	0 32 W
	Door shut-outside Thermometer $-7^{5}6^{9}$										

Focus 23.57±

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS	
K	1 29 W	+30 26	0-1	7.71	K_2	1½-1½-1½		ok
46	1 39 W	+43 02	1	6.84	A5	1½-1½-1½		good
3	1 49 W	+43 12	1-2	7.32	K_2	1½-1½-1½		ok
11	1 55 W	+50 06	1	7.45	K_0	1½-1½-1½	(strong)	fair
31	2 19 W	+36 18	2-1	7.78	K_5	1½-1½-1½		fair
21	2 44 W	+52 30	1-2	7.26	K_0	1½-1½-1½	(strong)	fair
	2 33 W	+49 40	2	7.36	K_0	1½-1½-1½	Twostrong	~~fair~~
	2 12 W	+56 38	2-3	7.58	K_0	1½-1½-1½	15 strong	fair
	2 47 W	+71 25	2	7.38	K_0	1½-1½-1½		fair
2	1 23 W	+75 56	3	6.53	H_3	1½-1½-1½		good
26	1 26 W	+40 24	2	7.57	K_2	1½-1½-1½		fair
52	1 33 W	+71 10	2-3	8.18	M_0	1½-1½-1½		fair



Focus a little long

Date Saturday night Sept 18-19, 1943 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End
9272	AD 165 207	18 04.5	+50 49	I-25	[illegible]	008	14.2	18 59	20 27	1
9274	[illegible]	19 47.2	+37 35	"	"	"	14.2	20 33	21 23	2
9275	[illegible]	20 19.4	+42 46	"	"	"	14.2	21 23	22 04	3
9276	[illegible]	21 [illegible]	+44 [illegible]	"	"	"	14.2	22 [illegible]	22 59	4
9277	21 3 212	21 [illegible]	+35 12	"	"	"	14.2	23 52	23 34	1
9278	21 42 12	22 [illegible]	+35 15	"	"	"	14.2	23 37	00 [illegible]	2
9279	22 52 26	23 53 [illegible]	26 06	"	"	"	14.2	00 [illegible]	01 00	3
9280	[illegible] 150	01 01 [illegible]	[illegible] 22	"	"	"	14.1	01 16	02 [illegible]	4
9281	15 3 [illegible]	02 02 [illegible]	01 31	"	"	"	14.1	02 24	02 [illegible]	1
9282	15700	02 55 [illegible]	10 29	"	"	"	14.1	02 59	03 [illegible]	2
9283	19525	03 03 [illegible]	08 05	"	"	"	14.1	03 26	03 48	3
9284	22211	03 19 [illegible]	06 05	"	"	"	14.1	03 [illegible] 52	04 12	4
9285	23426	03 40.0	06 30	"	"	"	14.1	04 16	04 38	1
[illegible]	[illegible] 31	04 21 [illegible]	[illegible] 52	"	"	"	[illegible]	[illegible]	[illegible]	[illegible]

Transit 28.55

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 54 W	+33 49	1	7.35	K0 1½-1½-2	Light clouds, star poor $\frac{+05}{-19}$ [38]
1 44 W	+37 41	1-2	7.66	M0 1½-1½-1½	Fair light clouds.
1 [illegible] W	[illegible] 48	2	7.32	K5 1½-1½-1½	Cloudy and, [illegible] moist.
0 53 W	+[illegible] 36	2-1	7.63	K2 1½-1½-1½	
0 38 W	-[illegible] 24	2	6.53	A0 1½-1½-1½	
1 13 W	+[illegible] 30	2-3	7.19	K5 1½-1½-1½	
0 [illegible] W	[illegible] 21	2-3	7.50	K0 1½-1½-1½	
0 45 W	09 31	2-3	7.98	F2 1½-1½-1½	
0 00	01 43	3	7.49	K0 1½-1½-1½	
0 24 E	10 38	3	7.38	K5 1½-1½-1½	
0 [illegible] W	08 15	3	7.22	G5 1½-1½-1½	
0 12 W	06 12	3	7.08	G0 1½-1½-1½	
0 24 W	05 31	3	7.12	K0 1½-1½-1½	White on the exposure [illegible]
			7.37	K0	under splash on finger [illegible] clipped
					[illegible] mirror [illegible]
					Extend the [illegible]

Date Sept 19-20 Sun. Y- No. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9286	HD 164780	17 57.7	75 10	I-25"	E103a-O	008	+16.8	7 05	8 15	2	1 [illegible]
9287	HD 179933	19 09.4	65 49	"	"	"	+16.5	8 20	8 44	3	1 [illegible]
9288	HD 179094	19 06.1	52 16	"	"	"	+16.5	8 48	9 18	4	1 45
9289	HD 193944	20 17.9	53 16	"	"	"	+16 5	9 22	10 22	1	1 37
	"			"	"	"					

Cleaned off - Mirror
Distilled water - KLEENEX
Clarco

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS Focus 23 50
8 5	1h 52 W	75 11	1-0	7 44	K0	1½ 1½ -1½	Thick haze
3	1 08 W	65 52	1	6 25	A2	1½ -1½ -1½	
11	1 45 W	52 19	1-2	6 93	K0	1½ -1½ -1½	
10 55	1 37 W	53 25	1-2	7.56	K5	1½ -1½ -1½	haze - Thick.
				6 42	40		

	mc.	sc.	RESET S.W.	M.T. S	S.T. mm
Sept. 20	-10.0	+19.2	+03.9	-05.9	+0.3

Date Monday 1943 Sep. 20-21 N-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9290	HD 172958	18 37.9	+ 31 31	1.25	E-103a-O	.008	+ 15.4	19 00	19 26	3	
9291	175679	18 51.4	+02 21	—	—	—	+ 15.3	19 33	20 15	4	
9292	185695	19 56.2	+08 17	—	—	—	+15.2	20 20	20 56	1	
9293	194937	20 23.2	+08 07	—	—	—	+15.0	21 30	22 06	3	
9294	205688	21 31.9	+29 37	—	—	—	+15.2	22 09	22 57	4	
9295	213644	22 27.9	+ 15 20	—	—	—	+15.2	23 04	23 48	1	
9296	221293	23 25.8	+38 06	—	—	—	+15.2	23 53	00 35	2	
9297	1075	00 009	30 19	"	"	"	+15.1	00 46	01		
9298	5213	00 454	48 09	"	"	"	+15.1	01 59	03		
9299	19066	02 589	40 12	"	"	"	+15.0	03 34	04		
9300	26605	04 074	37 43	—	"	"	+16.0	04 26	05		

Focus Test Outside through knee

Cloudy all day - clearing at sunset.

Focus 23.53

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
10 26	0 24 W	+31 33	1-0	6.47	Ao	1½ 1½ 1½	Set stars
20 15	0 59 W	+02 22	1-2	7.28	Ko	1½ 1½ 1½	" " E brighter star
26 22	0 36 W	+08 24	1-2	7.15	K2	1½ 1½ 1½	N
32 05	1 20 W	+08 12	1-2	7.26	Ko	1½ 1½ 1½	N " dec. focus after starting exposure - Lowry replaced and re-adjusted clamp control - poor contact had been made.
22 57	1 02 W	+29 47	1-2	7 47	Ko	1½ 1½ 1½	Seeing variable
33	0 57 W	+15 33	1-2	7.36	Ko	1½ 1½ 1½	
0	0 45 W	+38 20	1-2	7.21	Ko	1½ 1½ 1½	< light haze
1	1 21 W	31 12	1-2	7.79	K5	1½ 1½ 1½	
2	2 17 W	+15 22	1	7.95	Ma	1½ 1½ 1½	
1	1 20 W	+10 21	1-2	7.18	Ko	1½ 1½ 1½	
3	3 45 W	37 16	1-2	7.51	G5	1½ 1½ 1½	
						7.5	

Date Tues Sept 21-22 /43 Y-L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9301	HD 213389	22 25 9	48 51	I-25"	E103a-O	0.8	+13.9	10 16	11 10 3	
9302	HD 215030	22 37 2	41 03	"	"	"	+13 8	11 15	11 55 4	
9303	HD 210824	22 17 1	26 05	"	"	"				

Clouds. Wed 9:30 DST cleared when?

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS Focus 23.55
25m W	49 04	1-2	752	KO	1½-1½-1½	
58 W	41 13	1-2	707	KO	1½-1½-1½	clouds.
			698	F2		Sky clouding over, late clearing and clouding again. Still completely cloudy @ 3.00 AM

Date Wednesday night 22-23, 1942 H-L Julian Day —

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
9303	HD 168694	18 16.0	+29 37	1-25	E-103a-O	008	+16.0	18 49	19 19		1
9304	174569	15 46.0	+10 52	"	"	"	16.3	19 22	20 42		2
9305	184526	20 21.0	+9 45	"	"	"	16.7	20 44	21 22		3
9306	197812	21 40.9	+17 44	"	"	"	16.3	21 24	22 04		4
9307	210201	22 45.8	+18 36	"	"	"	16.1	22 46	23 [illegible]		1
9308	221612	23 25.9	+20 18	"	"	"	15.9	23 58	0 [illegible]		2
9309	3411	00 31.9	23 28	"	"	"	15.9	01 01	01 [illegible]		3
9310	8388	01 18.0	19 57	"	"	"	15.9	01 [illegible]	02 [illegible]		4
9311	17268	02 40.0	35 35	"	"	"	15.9	02 [illegible]	03 [illegible]		1
9312	[illegible] 23811	04 30.9	39 40	"	"	"	15.8	03 [illegible]	04 [illegible]		2
	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]				

Cloudy till 8 o'clock during day. Showers till 4 p.m.
Heat waves from 1^00 - 7^00 D.S.T.
Trans set 23.52

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	0 47 W	+27 36	2-3	7.14	K0	1½ 1½ 1½	Guiding excellent
	1 03 W	+12 53	3	(8.27) 7.70	K2	1½ 1½ 1½	Prof bad.
	0 42 W	+ 9 52	2-3	7.64	K5	1½ 1½ 1½	Guiding. Just clear of cloud.
	0 18 W	+17 12	3-2-1	8-1 from	M6	1½ 1½ 1½	2.4-3.5 mm neg. Strong N Wind.
	0 55 W	+ 15 49	2-1	7.50	K0	1½ 1½ 1½	
	1 16 W	20 30	2-1	7.24	M0	1½ 1½ 1½	
	1 07 W	23 40	2-1	7.44	K0	1½ 1½ 1½	
	1 10 W	20 26	2-1	7.48	K5	1½ 1½ 1½	
	1 21 W	35 45	2-3	7.16	G5	1½ 1½ 1½	
	1 08 W	30 41	2-1	7.46	K0	1½ 1½ 1½	Clouds formed end of Exp.
						7.5	Sky clouding over.

M.T.W.S. S.T.W.
Sept 23/43 -0.5 +0.2 W.B.E.N.

Date Thur. Sept 23-24 Y – No **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9313	HD 181597	19 16.0	49 23	I-25	F103a-O	008	+14.0	6 48	7 20 1	-5
9314	HD 183387	19 24.2	00 02	"	"	"	+14.0	7 27	8 21 2	-6 N
9315	HD 191814	20 06.7	20 51	"	"	"	+14.0	8 26	9 00 3	-3 N
9316	HD 197939	20 41.8	56 08	"	"	"	+14.0	9 05	9 49 4	0 W
9317	HD 195820	20 28.5	51 58	"	"	"	+14.0	9 53	10 33 1	+4
9318	HD 213720	22 28.4	53 31	"	"	"	+14.0	10 41	11 01 2	+N

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS Focus 23.55
	7^m E	49 28	2-3	7.26	K0	1½-1½-1½	
	46 W	00 06	2-1	7.59	K2	1½ 1½-1½	haze
	42 W	20 56	2	726	K0	1½-1½-1½	
	56 W	56 16	2	759	Ma	1½ 1½ 1½	
	$1^h 54^m$ W	52 06	2-1	727	K0	1½ 1½ 1½	
	21 W	53 44	2	747	K0	1½ 1½	clouds 10 50

Date Friday 1943 Aug 24-25 N = No. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9319	HD 173416	18 40.1	+36 28	1.25	E-103a0	.008	+11.9	18 42	19 24	3	3W
9320	182483	19 19.8	+32 01	—	—	—	+11.9	19 29	21 19	4	3W
9321	199941	20 36.3	+16 26	—	—	—	+11.8	21 26	22 18	1	4W
9322	212988	22 23.2	+31 20	—	—	—	+11.8	22 23	23 23	2	3.2W
9323	220392	23 17.1	+25 01	—	—	—	+11.9	23 28	00 24	3	1.98W
9324	221431	22 27.5	+34 25	—	—	—	+11.7	00 29	01 25	4	1W
9325	7578	01 10.7	+32 36	—	—	—	+11.7	01 29	02 25	1	1.9W
9326	11624	01 49.0	+36 37	—	—	—	+11.7	02 29	03 37	2	1W
9327	28505	04 24.6	+10 01	—	—	—	+11.6	03 49	05 12	3	1.9W

Sun West of this line by $-7^{\circ}.5^{\circ}$

Clouds and some rain during day. Clearing at sunset

Open 23.59 t

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
0 36W	+36 31	2	7.25	K0	1½ 1½ 1½	haze seeing variable
1 51W	+33 06	1-2-0	7.50	K0	1½ 1½ 1½	thick haze - thinning 20 10
1 14W	+16 35	1	6.87	F2	1½ 1½ 1½	haze
0 52W	+31 33	2-1	7.33	K2	1½ 1½ 1½	haze
1 00W	+26 16	2	6.98	F2	1½-1½-1½	haze
1 51W	+34 37	2	6.55	A0	1½-1½-1½	get stars!
1 07W	+32 48	1	7.31	K0	1½-1½-1½	
1 41W	+36 50	1	7.37	K0	1½-1½-1½	haze
0 41W	+10 08	1-2	7.32	F5	1½-1½-1½	sky getting increasingly thick

Focus good

Date Saturday, September 25-26 1903, H-N Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9328	M 13 Center	16 36.6	+36 42	I-25	E-Ilford Process	4 mm	12.4	18 43	19 42	4
9329	18 Hours N	19 31.7	+11 10	"	"	"	12.5	19 45	20 41	1
9330	19 Hours 17	20 23.2	+08 07	"	"	"	12.4	21 43	22 27	2
9331	20 Hours 55	21 24.5	+21 45	"	"	"	12.4	21 50	22 40	3
9332	21 Hours N	22 50.0	+37 04	"	"	"	12.4	22 43	23 23	4
9333	22 Hours 13	23 19.7	+23 34	"	"	"	12.5	23 25	00 15	1
9334	22 Hours 46	23 53.1	+18 36	"	"	"	12.2	00 20	01 20	2
9335	8 Hours 15	01 17.9	+33 13	"	"	"	12.3	01 25	02 03	3
9336	8 Hours 43	01 25.1	+07 27	"	"	"	12.3	02 08	02 54	4
9337	19 Hours 39	02 51.7	+38 13	"	"	"	12.2	02 58	03 34	1
9338	23 Hours 30	04 25.4	+29 12	"	"	"	12.2	03 39	04 21	2
9339	30 Hours 5	04 43.7	+23 25	"	"	"	12.2	04 38	05 24	3

Sextal interval = 7°6'

Sunset 23.58

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1 35 W	+38 42	2-1	7.52	K2	1½-1½-1½	N wind, faint clouds.
	1 25 W	+ 4 5	1	7.47	K0	1½-1½-1½	
	1 01 W	+08 15	1	7.26	K0	1½-1½-1½	
	1 12 W	+21 56	1-2	7.53	K0	1½-1½-1½	Lining up rounds. Strong
	0 44 W	+27 18	0-1	6.92	G5	1½-1½-1½	V. "
	1 02 W	+32 17	1-2	7.44	K0	1½-1½-1½	Strong
	1 52 W	+48 50	1	7.45	K2	1½-1½-1½	OK
	0 42 W	+32 55	1	7.12	G5	1½-1½-1½	V Strong
2 56	1 28 W	+07 40	2	7.44	K0	1½-1½-1½	Double twin lighter *
3 04	0 39 W	+38 24	1-2	7.08	K0	1½-1½-1½	
	0 41 E	+09 16	1-2	7.20	K0	1½-1½-1½	
2 52	0 38 W	+03 30	2	7.20	K0	1½-1½-1½	clouds +45 [illegible]
							(Retro) [illegible]
							[illegible]
							Focus good

Date Sunday Sept 26-27 Y-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9340	HD 186 021	19 369	22 13	J-25	E103a-0	008	+11.6	6 47	7 23	1	5E
9341	HD 183 589	19 252	2 41	"	"	"	+11.8	7 28	8 08	2	3W
9342	HD 191 178	20 035	16 24	"	"	"	+12.0	8 12	9 32	3	2W
9343	HD 212 047	22 164	26 26	"	"	"	+11.9	9 37	10 47	4	1W
9344	7647	01 113	44 23	"	"	"	11 2	01 03	02 08	1	5

Something wrong with heat switch. works sometimes and then fails

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Heaters will not come on in clock.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS Focus 2760
15 E	22 18	3	751	K2 1½ 1½ 1½	
43 W	2 44	2-3	756	K5 1½ 1½ 1½	Temp rising in dome (reset hum)
1 28 W	16 30	3-0	8.02	Ma 1½ 1½ 1	clouds. 8[35]. 8[52] clearing late.
1 0 W	26 38	2-0	785	Ma 1½ 1½ 1½	clouds Cloudy at midnight,
0 37 W	44 37	2-1	766	K5 1½ 1½ 1½	Clouds at End of exposure. sky fallen in, then heaters on, efforts, warter, then late closed up.

Date Monday Sept 27-28/43 Y-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9345	HD 173920	18 42 9	50 47	I-25	E103a-O	008	+17.5	6 42	7 20	2	E W
9346	HD 185264	19 33 2	50 01	"	"	"	17.7	7 27	8 57 7 57	3	37 W

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS Focus 22.50
42 W	54 51	2-3	7.04	G5 1½ 1½ 1½	light clouds
27 W	50 06	2-3	7 41	G5 1½ 1½ 1½	clouds thick at 7 58

Date Sunday, Sept 28-29, 1947 U.L. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9347	HD 170829	18 24.4	+20 46	I-25	[illegible]	0.08	20.1	18 39	19 [illegible]	1	[illegible]
9348	194786	19 31.0	+49 02	"	"	"	20.1	19 49	20 57	2	[illegible]
9349	196279	20 31.8	+51 21	"	"	"	21.0	21 02	21 35	3	[illegible]
9350	205314	21 31.9	+49 38	"	"	"	21.1	21 37	21 59	1	[illegible]
9351	211029	22 12.2	+43 45	"	"	"	20.1	22 12	22 40	2	[illegible]
9352	213314	22 54.9	+52 06	"	"	"	21.0	23 13	00 03	3	[illegible]
9353	3936	00 36.1	66 36	"	"	"	20.0	00 11	[illegible]	1	[illegible]
9354	4295	00 40.3	68 41	"	"	"	20.0	00 45	01 [illegible]	2	[illegible]
9355	6540	01 01.2	52 38	"	"	"	20.0	01 [illegible]	[illegible]	1	[illegible]
9356	10253	02 22.3	55 06	"	"	"	20.0	[illegible] 35	03 [illegible]	2	[illegible]
9357	25602	03 [illegible]	53 46	"	"	"	20.0	03 [illegible]	[illegible] 04	3	[illegible]
9358	32536	05 [illegible]	31 52	"	"	"	20.0	04 [illegible]	05 [illegible]	1	[illegible]
	[illegible]			Cloudy through							

June 23.46 NE wind.

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
1 24 W	+20 46	0-1	7.37	G5	1½ 1½ 1½	Light haze. ← Trouble with the [illegible]
1 37 W	+19 [illegible]	0-1	7.54	M6	1½ 1½ 1½	[illegible]
1 12 W	+[illegible]	0	6.54	F0	1½ 1½ 1½	
0 38 W	+[illegible]	1	5.71	A0	1½ 1½ 1½	get strong OK
1 03 W	+[illegible]	1-2	7.[illegible]	M2	1½ 1½ 1½	Light haze, [illegible]
1 17 W	+[illegible]	1-2	7.48	K2	1½ 1½ 1½	Haze
0 13 W	65 50	2	6.70	G5	1½ 1½ 1½	" OK
0 42 W	58 39	2	6.76	F2	1½ 1½ 1½	" OK
0 35 W	53 11	2-1	7.49	K0	1½ 1½ 1½	" OK
0 30 W	55 17	2-3	6.62	A2	1½ 1½ 1½	" OK
0 5 W	53 50	2	7.42	K0	1½ 1½ 1½	" OK
0 13 W	51 55	2	8.07	M2	1½ 1½ 1½	"
					7-5	

		MC	SC	MTW	STW
WBEN	3.30 PM EST	-10.6	+23.9	-07.4	+0.5

from Tel. +0.2?

Date ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
	HD 170973	18 27.1	+3 35								
9359	HD 170137	18 22.8	+03 41	1-25	F-103a0	.008	+17.2	18 40	19 30	1	14 W
9360	186815	19 41.6	+56 47	-	-	-	+17.2	19 44	20 30	2	51 W
9361	199.298	20 19.8	+63 41	-	-	-	+17.2	20 26	20 58	3	31 W
9362	198236	20 49.9	+69 23	-	-	-	+17.3	21 02	21 00	-	2½ W
9363	210905	22 08.5	+58 34	-	-	-	+17.3	22 05	22 51	1	55 W
9364	218360	22 [illegible]	+63 41	-	-	-	+17.3	22 55	23 31	2	3¼ W
9365	222682	23 31.7	+61 07	-	-	-	+17.2	23 54	[illegible]	3	
9366	6211	01 [illegible]	51 55	"	"	"	16.0	00 [illegible]	[illegible]	1	
9367	10110	01 [illegible]	58 22	-	-	-	17.0	01 [illegible]	[illegible]	1	
9368	17378	02 [illegible]	66 40	-	-	-	17.1	01 [illegible]	[illegible]	2	
9369	16658	02 [illegible]	61 01	-	-	-	17.0	02 [illegible]	[illegible]	3	
9370	2527A	03 [illegible]	68 24	-	-	-	17.0	02 [illegible]	[illegible]	1	
9371	26161	04 [illegible]	68 16	-	-	-	17.0	03 [illegible]	[illegible]	1	
9372	31563	04 [illegible]	73 37	-	-	-	17.0	04 [illegible]	[illegible]	2	
9373	32418	04 [illegible]	69 30	-	-	-	17.0	04 [illegible]	[illegible]	3	
	Some Set			Cloudy	Overcast						

Focus at 23.50 ±

ing Time P.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag. 6 32	B9			REMARKS
	1 14 W	+03 36'	1	7.21	K2	1½	1½	1½ Note direction of heating — [illegible] Star was not the same when [illegible]
	0 51 W	+56 54	1-2	7.17	G5	1½	1½	1½ Guide with Keating very variable good
	0 31 W	+63 46	2-1	7.10	K5	1½	1½	1½ " " "
	1 29 W	+69 32	2-1	7.52	K0	1½	1½	1½ haze - variable Stars?
	0 55 W	+58 46	2	7.52	K0	1½	1½	1½ Stars
	0 39 W	+63 54	2-3	7.41	K5	1½	1½	1½ Stars very wavering slightly, var. seeing
	0 30 W	+61 22	2-3	7.61	K2	1½	1½	1½ Stars
	0 17 W	+52 12	3	7.34	K2	1½	1½	1½ "
	0 04 W	55 30	3	7.71	K2	1½	1½	1½ "
	0 13 E	56 31	3	6.95	K5	1½	1½	1½
	0 31 W	61 12	3	6.91	K0	1½	1½	1½ Stars
	0 21 E	68 34	3	7.21	K2	1½	1½	1½ "
	0 02 W	68 18	3	7.41	K0	1½	1½	1½ Stars
	0 09 W	73 40	3	7.76	K0	1½	1½	1½ "
	0 24 W	69 32	3	7.58	K5	1½	1½	1½ Stars
						7 5		

Date Thurs. Collins O.L. Y-H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9374	HD 173393	18 39.9	39 13	3-25"	2 45"	0.8	17.0	6 38"	7 25"	1	
9375	HD 185622	19 34.9	16 21	"	B1 [illegible]	"	17.2	19 30	20 40	2	
9376	194320	20 19.9	+32 40	"	"	"	17.1	20 44	21 28	3	
9377	204560	21 24.3	+17 29	"	"	"	17.0	21 32	22 18	4	
9378	214838	22 36.2	+28 20	"	"	"	17.1	22 32	23 02	1	
9379	215987	22 43.5	+57 57	"	"	"	17.1	23 05	23 49	2	
9380	223615	23 37.1	+56 43	"	"	"	17.1	23 52	00 04	3	
9381	2904	00 27.3	70 26	"	"	"	17.1	00 00	00 34	4	
9382	4490	00 41.6	72 08	"	"	"	17.1	00 40	01 18	1	
9383	7732	01 12.0	77 02	"	"	"	17.1	01 29	02 06	2	
9384	8424	01 15.4	70 27	"	"	"	17.1	02 02	02 30	3	
	Sol										

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp
1 01 W	39 14	1-2	7.73	K5 1½ 1½ 1½
1 20 W	-16 26	1-2	7.96	K5 1½ 1½ 1½
1 25 W	-52 35	1-2	7.33	K0 1½ 1½
1 20 W	+17 40	1-2	7.54	K5 1½ 1½ 1½
0 42 W	+73 32	1-2	7.10	K0 1½ 1½ 1½
1 02 W	+58 10	2	6.29	A0 2-3
0 43 W	+56 57	2	7.11	G5 1-1½ 1½
0 24 W	70 +0	2	6.36	A0 1½ 1½ 1½
0 33 W	72 22	2-1	7.04	K0 1½ 1½ 1½
1 00 W	73 16	2-3	7.16	G5 1½ 1½ 1½
1 27 W	70 42	3	6.02	A0 1½ 2 1½
				7.3

REMARKS Focus unchanged

Lens very dirty.

SAT streaks

Hazy

Hazy / hazy

RA + Dec stalling but very b[illegible] circuits worked at home switch.

	MC	SC	SW	MT	ST
Oct. 1	−12ˢ.4	+22ˢ.8	−45ˢ.1	−07ˢ.4	+0ᵐ.3

Date Friday Oct 1-2 1943 M-Y Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9385	HD 171994	18 32.6	+16 07	I-25	E-103a-O	.008	17.8	18 32	19 52	3
9386	193+94	20 13.4	+28 50	"	"	"	17?	19 50	20 50	4
9387	HD 203294	21 18.4	+29 52	"	"	"	17.0	21 04	21 54	1

at 17^{50} set Chronolat with time at 17.2. Time unchanged.

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
1 30 W	16 09	2-1	7.38	KO	1½ 1½ 1½	Team back of clouds, rain in NW. Much haze
1 02 W	25 51	1	7.35	KO	1½ 1½ 1½	Focus reset = 33.48 Lower ½ extreme NW edge not to be obtained on at one time. Tried by opening up both wedges.
	Clouds.					Clouds much of last 15 m of exposure.
2 51 W	+30 04	1-2	7.28	KO	1½ 1½ 1½	Outside of dome is wet. Clouds last 15 min of exposure.
	Tight at midnight.					
	↑					
	The dome not right = shutter half open.					

Date Saturday 1942 Oct 2-3 N. ~~L~~ Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9388	HC 176716	18 36.0	+19 10	1-25	F-103aO	.008	+15.6	18 38	19 50	2	1 17W
9389	193096	20 13.4	+28 50	"	"	"	+15.6	19 55	20 49	3	0 39W
9390	201393	21 03.5	+06 46	"	"	"	+15.4	20 54	22 04	4	1 34W
9391	214710	22 35.9	+74 51	"	"	"	+15.4	22 14	23 00	1	1 21W
9392	219485	23 11.0	+73 41	"	"	"	+15.3	23 04	23 14	2	1 17W
9393	224309	23 51.7	+82 37	"	"	"	+15.3	23 20	23 44	3	0 48W
9394	225136	23 53.1	+66 09	"	"	"	+15.3	23 50	00 30	4	

Int. Int.

Cobalt through Iris

Many clouds at most. Hazy band in NW.
Power at 23.5 I

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
1 17 W	+19 13	0-1-2	7.51	K0	1½ 1½ 1½	Clouds. Intermittently from 19 08 - 19 26
0 39 W	+28 58	0-1	7.38	K0	1½ 1½ 1½	
1 24 W	+06 45	0-1	7.56	K=	1½ 1½ 1½	
0 50 W	+75 03	0-1	7.24	K5	1½ 1½ 1½	
0 27 W	+73 53	1	5.74	A0	1½ 1½ 1½	
0 16 W	+82 53	0-1	6.42	A0	1½ 1½ 1½	GET STRONG
	+66 22	/	7.97	Ma	1½ 1½	Hazy clouds over at 02[h]
					7.5	Still much at 02[h] 30[m], or cloudy.

Date Sunday, [illegible] 3-4, 1943 H-Y Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9385	HD 173978	18 42.3	+17 36	I-25	E-103a-O	C-F 0.05	12.3	18 24	[illegible] 32	1	
9386	184322	19 54.3	+21 07	"	"	"	10.5	19 36	20 30	2	
9387	194404	20 45.0	+15 11	"	"	"	11.5	20 33	21 17	3	
9388	206731	21 39.0	+49 [illegible]	"	"	"	10.1	21 20	21 [illegible]0	[illegible]	
9389	208606	21 52.3	+61 04	"	"	"	11.5	21 52	22 [illegible]		
9390	215169	22 38.2	+53 23	"	"	"	11.1	22 35	23 12	2	
9391	221705	23 31.9	+24 01	"	"	"	11.4	23 19	[illegible] 25	3	
9392	1419	00 13.8	+10 19	"	"	"	10.5	00 30	01 10		
9393	[illegible]	[illegible]	+20 [illegible]	"	"	"	10.5	01 15	01 35	1	
9394	14733	02 19.2	29 [illegible]	"	"	"	10.4	01 58	02 48	2	
9395	20853	03 14	11 [illegible]	"	"	"	10.4	02 52	03 22	3	
9396	23857	03 43.5	-00 04	"	"	"	10.3	03 28	03 58	4	
9397	30191	04 31.8	+01 52	"	"	"	10.3	04 01	04 41	1	
9398	37178	05 31.2	33 30	"	"	"	10.2	04 46	05 30		
	Focus [illegible]										

From 27.61

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1 13 W	+18 28	2	7.45	K5	1½ 1½ 1½	Start blowing hard; Cloud much of night 90 m.
	1 04 W	+ 01 11	2-1	7.13	K5	1½ 1½ 1½	Light breeze 19h 20m 20h 20m
	1 00 W	+ 05 5	1-2	7.30	K0	1½ 1½ 1½	Light breeze moving off
	0 42 W	+ 49 21	2	7.12	K0	1½ 1½ 1½	
	1 28 W	+ 51 16	2	7.40	K5	1½ 1½ 1½	V. variable wind, very gusty, rain ceased after 2 hr.
	1 13 W	+ 52 36	2	7.32	K2	1½ 1½ 1½	Large moon but nothing due to fog.
	1 [illegible] W	+ 24 14	2-3	7.95	M0	1½ 1½ 1½	Wind ruby dominators to move Jupiter.
	25 W	+ 10 [illegible]	2 1	7.20	K0	1½ 1½ 1½	
	15 W	+ 29 44	2	7.40	K0	1½-1½ 1½	
	1 02 W	+ 29 55	2	7.60	K0	1½ 1½ 1½	
	41 W	+ 42 16	2	[illegible]	[illegible]	1½ 1½ 1½	Many [illegible] Saturn Uranus + Orion etc make a brilliant morning sky
	43 W	+ 00 01	2	7.10	K0	1½ 1½ 1½	
	47 W	+ 01 56	2-1	7.37	K0	1½ 1½ 1½	
	26 W	33 31	2	7.73	K0	1½ 1½ 1½	
						7-5	
							Jupiter [illegible]
							NOTE - Comparison [illegible]

Date Sunday Oct 5-6 1963 H-Y **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9428	4 D. 174 3	18 45.1	+24 56	I-25	F-103a-D	.005	11.8	18 26	15 54	2
9429	18 272	19 18.8	+33 19	"	"	"	12.2	15 53	19 36	4
9430	13 6 21	19 38.5	+42 20	"	"	"	12.1	19 59	20 33	1
9431	20 430	20 58.5	+14 20	"	"	"	11.9	20 38	21 50	2
9432	21 259	22 17.1	+36 30	"	"	"	11.7	21 55	22 29	3
9433	21 6 182	22 45.1	+62 24	"	"	"	11.8	22 33	23 31	4
9434	23 430	23 16.2	+61 40	"	"	"	11.7	23 34	00 13	1
9435	22 1 784	23 56.5	+53 31	"	"	"	11.5	23 46	00 16	2
9436	4321	00 40.6	54 45	"	"	"	11.4	00 19	00 35	3
9437	4851	00 43.9	51 02	"	"	"	11.6	00 38	00 50	4
9438	5357	00 52.4	68 15	"	"	"	11.5	00 55	01 11	1
9439	6028	00 56.5	50 30	"	"	"	11.5	01 15	01 31	2
9440	12015	01 52.8	77 26	"	"	"	11.5	01 37	02 05	3
9441	16024	02 29.4	65 19	"	"	"	11.6	02 09	02 29	4

Cont on next page

Grass at 23.59

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
						MC SC RW MT ET
0 44 W	+24 28	1	6.56	A0	1½ 1½ 1½	Oct 4 -12.8 +24.1 -49.5 -03.3 +0.3
0 53 W	+32 24	1-2	7.30	K0	1½ 1½ 1½	
1 32 W	+42 50	1-2	7.74	[illegible]	1½ 1½ 1½	[illegible]
1 37 W	-10 30	1	7.78	M0	1½ 1½ 1½	
2 49 W	+76 14	1-2	6.56	A0	1½ 1½ 1½	
0 52 W	-62 37	2	7.16	K0	1½ 1½ 1½	
[illegible] W	[illegible]	2-3	7.61	[illegible]	1½ 1½ 1½	[illegible]
56 W	+59 13	3	7.37	K0	1½ 1½ 1½	
30 W	+54 59	3	6.58	A2	2½ 2½	
40 W	51 13	3	6.24	A0	2½ 2½	
55 W	68 26	3	6.66	F0	2½ 2½	
1 10 W	50 43	3	6.70	A3	2½ 2½	
45 W	77 38	3	7.35	K0	1½ 1½ 1½	
33 W	65 29	3	7.07	K0	2½ 2½	

Date Cont'd Y Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
9423	HD 13518	02 09.5	4° 21	T-S	E1030 O	008	+11.5°	02 34	03 02	28W	1
9424	18153	02 49.8	50 51	"	"	"	+11.5°	03 06	03 40	25W	2
9425	25548	04 01.5	54 34	"	"	"	11.5°	03 43	03 57	1W	3
9426	29606	04 34.7	59 20	"	"	"	11.5°	04 05	04 21	21W	4
9427	30144	04 39.9	55 26	"	"	"	11.5°	04 25	04 39	34W	1
9428	36040	05 23.8	41 23	"	"	"	11.5°	04 44	05 02	14W	2
9429	37319	05 31.7	26 34	"	"	"	11.5°	5 06	5 30	13W	3

{ Focus lost outside thru base

Box is put in drawer with film side away from front

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
1 28W	47 31	3	744	K0	1½-1½-1½	
1 25W	51 01	3	770	K5	1½-1½-1½	
31W	54 40	3	670	F5	2½-2½	
21W	59 22	3	661	A3	2½ 2½	
34W	55 30	3	662	F0	2½ 2½	
14W	41 24	3	709	K0	2½ 2½	
33W	26 35	3	747	K0	1½-1½-1½	
					T-S-	
						Seeing probably better than 3

Date Wed Oct 6-7 Y-Z Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
9430	HD 181655	19 16.2	37 09	I-25"	E103a-O	008	17.0	18 29	18 55	1
9431	186702	19 40.9	34 10	"	"	"	17.1	18 58	19 58	2
9432	193373	20 14.8	12 56	"	"	"	17.2	20 02	20 52	3
9433	204445	21 23.5	7 46	"	"	"	17.1	20 58	21 56	4
9434	212047	22 16.4	26 26	"	"	"	17.0	22 00	23 10	1
9435	3411	00 31.9	23 28	"	"	"	17.0	23 16	00 02	2
9436	9712	01 30.0	40 34	"	"	"	16.9	00 06	00 43	3
9437	15453	02 24.2	09 07	"	"	"	17.0	00 53	01 35	4
9438	19121	02 63.5	01 30	"	"	"	17.0	01 40	02 10	1
9439	21016	03 15.4	04 31	"	"	"	16.9	02 14	02 49	2
9440	26313	04 19.1	05 57	"	"	"	16.9	03 [illegible]	[illegible]	3
9441	33946	05 02.7	00 26	"	"	"	16.9	03 39	04 31	4
9442	37784	05 30.0	22 37	"	"	"	17.0	04 [illegible]	[illegible]	1

Good Test — Plates Hazy Sky

Focus 23.50

Hr ∠	Rec.	Seams	Mag		Comp.	
18 W	37 14	2	7.14	G5	1½-1½-1½	Short
56 W	34 15	2	8.12	Ma	1½-1½-1½	good
97 W	13 00	2	7.85	Ma	1½-1½-1½	fair record
77 W	7 55	2-1	8.01	Ma	1½-1½-1½	" "
93 W	26 38	1	7.85	Ma	1½-1½-1½	" weak
C 10 W	23 40	1-2	7.44	K0	1½-1½-1½	good
C 03 E	40 16	1-2-3	7.39	K0	1½-1½-1½	[illegible] fair show
C 10 E	03 18	1-2	7.30	K0	1½-1½-1½	short
C 09 E	01 35	1-2-3	7.05	K0	1½-1½-1½	[illegible] good
C 00	04 40	3	7.03	G0	1½-1½-1½	" " good
C 02 W	06 03	3-2	7.72	G5	1½-1½-1½	good
C 03 W	00 27	2-1	7.61	K2	1½-1½-1½	02
C 30 W	22 37	2-1	7.54	K2	1½-1½-1½	good
					7-5	[illegible] good

Date Thursday 1943 Oct. 7-8 N.L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
9443	HD 177199	18 58.6	+19 31	1-22	E-103a-O	.008	+20.2	18 41	19 21	1 W	1
9444	190638	20 00.9	+15 13	"	"	"	+20.3	19 25	20 39	21 W	2
9445	203358	21 16.6	+32 02	"	"	"	+20.3	20 45	21 23	1 50 W	3
9446	207636	21 45.3	+69 41	"	"	"	+20.3	21 29	21 47	1 46 W	4
9447	213243	22 25.9	+63 34	"	"	"	+20.3	21 52	22 28	1 47 W	1
9448	220074	23 15.8	+61 26	"	"	"	+20.3	22 32	22 42	10	2
9449	2052	00 27.7	+21 22	"	"	"	20.0	23 41	[illegible] 21	[illegible]	3
9450	7525	01 13.6	75 43	"	"	"	20.1	00 [illegible]	[illegible]	[illegible]	4
9451	5184	01 16.1	10 21	"	"	"	20.1	00 40	01 24	[illegible]	1
9452	17838	02 49.[illegible]	63 55	"	"	"	20.1	01 [illegible]	02 32	[illegible]	2
9453	20104	03 [illegible]	63 17	"	"	"	20.0	02 38	03 00	[illegible]	3
9454	24169	03 45.8	71 31	"	"	"	20.0	03 01	03 [illegible]	[illegible]	4
9455	24746	04 02.6	71 52	"	"	"	20.0	03 45	04 19	[illegible]	1
9456	33511	05 05.9	73 00	"	"	"	20.0	04 07	04 [illegible]	[illegible]	2
9457	34653	05 40.0	77 53	"	"	"	20.0	04 [illegible]	04 47	[illegible]	3
9458	35429	05 [illegible]	66 05	"	"	"	20.0	04 55	[illegible]	[illegible]	4

Tower at 23:46 ±

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
21	1 06 W	+19 33	0-1-2	7.25	Ko 1½ 1½ 1½	Lucky due to not checking position of slit!
39	1 21 W	+15 18	1	7.91	Ma 1½ 1½ 1½	variable seeing Tracked with slow Turning.
3	0 50 W	+32 12	1-2	7.22	G5 1½ 1½ 1½	Double ? - two components must be very tight! - not simple Parallel
47	0 46 W	+69 52	2	6 42	K0 1½ 1½ 1½	GET STRONG
0	0 17 W	+63 46	2	7.38	Ko 1½ 1½ 1½	variable seeing
25	1 10	+61 38	2-1	7.80	K5 1½ 1½ 1½	
	0 37 W	+54 34	2-1	7.14	K0 1½ 1½ 1½	
	0 20 W	70 36	2-1	6 33	A3 1½ 1½ 1½	
	0 10 W	70 40	1	6 52	A0 1½ 1½ 1½	Get Focus
	0 20 W	64 06	2	7.75	K5 1½ 1½ 1½	
	0 35 W	63 06	2	6 41	A0 1½ 1½ 1½	
	0 20 W	71 51	2	6.67	K0 1½ 1½ 1½	
	0 45 W	71 18	2	6 93	G5 1½ 1½ 1½	
	0 04 E	73 11	2	5.76	A0 2-2	
	0 17 W	77 57	2	6 63	A1 1½ 1½ 1½	
	0 40 W	66 06	2	7 09	A0 1½ 1½ 1½	

Friday, October 8-9, 1943 H-L

						Set				
9443	H.D. 177199	18 58.6	+19 31	I-25	E-103a-0	.008	21.2	18 19	18 53	1
9444	186776	19 41.4	+42 28	"	"	"	21.3	18 57	19 57	2
9445	199442	20 52.1	+00 05	"	"	"	21.2	20 03	20 53	3
9446	205924	21 33.5	+05 19	"	"	"	21.2	20 56	21 16	4
9447	207636	21 46.0	+69 41	"	"	"	21.1	21 22	21 53	1
9448	213242	22 25.0	+63 34	"	"	"	21.1	21 53	22 43	2
9449	220242	23 17.1	+26 05	"	"	"	21.1	22 48	23 27	3
9450	1417	00 13.2	+10 39	"	"	"	21.0	23 31	00 23	4
9451	7925	01 13.8	75 43	"	"	"	20.8	00 32	01 08	1
9452	8424	01 18.4	70 27	"	"	"	20.8	01 11	01 41	2
9453	17958	02 48.1	63 55	"	"	"	20.8	01 45	02 [illegible]	3
9454	20104	03 08.8	65 17	"	"	"	20.8	02 [illegible]	03 22	4
9455	21164	03 45.8	71 31	"	"	"	20.8	03 27	03 57	1
9456	25076	04 02.6	71 52	"	"	"	20.8	04 00	04 38	2
9457	33541	05 [illegible]	73 09	"	"	"	20.8	04 42	04 58	3
9458	34553	05 14.0	77 53	"	"	"	20.8	05 02	05 [illegible]	4

Hour Angle End

0 41 W
: 04 W
: 49 W
: 29 W
: 54 W
: 11 W
: 59 W
0 58 W
: 41 W
: 59 W
: 56 W
: 36 W
: 27 W
: 21 W
: 37 W
06 W

Transcript 23.44

Hour Angle End	Declination	Seeing	Ptg. Mag.				REMARKS	
0 41 W	+19 34	1-2	7.25	K0	1½ 1½ 1½			good
1 04 W	+40 34	2	7.79	Ma	1½ 1½ 1½	*	*Time last turning down from below.	good
0 48 W	+00 14	1	7.33	K2	1½ 1½ 1½	*		good
0 29 W	+05 30	1	6.08	F0	1½ 1½ 1½		FUZZY LINES Wind from W to SW	good
0 54 W	+69 52	1-2	6.42	A0	1½ 1½ 1½		GET STRONG Clear + wind very variable.	good
1 06 W	+63 46	1	7.38	K0	1½ 1½ 1½			good
0 59 W	+36 19	0-1	6.98	F2	1½ 1½ 1½			strong
0 58 W	+10 53	1-0	7.20	K0	1½ 1½-1½		Image unsteady	strong
0 41 W	75 36	1	6.53	A3	1½-1½-1½		Light cirrus	good
1 00 W	70 41	1	6.52	A0	1½ 1½-1½		Gy hazy.	good
0 54 W	64 04	1-2	7.75	K5	1½-1½-1½			good
1 00 W	65 26	2	6.41	A2	1½ 1½-1½			good
0 57 W	71 36	2-1	6.67	F0	1½-1½ 1½			good too strong
1 21 W	71 58	2-1	6.93	G5	1½-1½-1½			too strong
0 37 W	73 11	2-1	5.76	A0	1½-1½ 1½			too
1 05 W	77 05	2-1	6.66	A5	1½-1½-1½			too

Date Saturday 1913 October 9-10 N-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9459	HD 194953	20 23.3	+32 36	1-25	F-103a-O	.008	+16.6	19 56	20 56	1
9460	207223	21 42.3	+16 41	"	"	"	+16.4	21 01	21 20	2
9461	213272	22 25.2	+35 13	"	"	"	+16.4	21 35	22	3
9462	217150	22 55.7	+02 20	"	"	"	+16.4	22 19	22 59	4
9463	224393	23 51.6	+23 05	"	"	"	+16.3	23 03	00 33	1
9464	11925	01 52.0	27 15	"	"	"	+16.0	00 40	01	2
9465	12580	02 33.1	14 29	"	"	"	+16.0	01 34	03 37	3
9466	34193	05 26	14 19	"	"	"	+16.0	03 57	04	4
	Stone Sent				Cloudy - Short Exp.					

Clouds at zenith, gradually clearing.

Focus at 23.31 :

Hour Angle End	Declination	Seeing	Ptg. Mag.					REMARKS
1 24 W	+02 42	O	7.35	Ko	1½	1½	1½	seeing fair
0 38 W	+16 56	O	6.52	Fo	1½	1½	1½	
0 37 W	+35 26	O	6.53	Ao	1½	1½	1½	GET STRONG
0 56 W	+02 42	O-1	6.96	Ko	1½	1½	1½	
1 33 W	+22 19	O	7.65	Ma	1½	1½	1½	
1 [illegible] W	21 31	O	7.37	Mb	1½	1½	1½	seeing not!
1 [illegible] W	15 36	O	6.29	Ko	1½	1½	1½	
1 [illegible] W	44 21	O	7.72	Ko	1½	1½	1½	
							7.5	

*Focused off at 04 27 without seeing, although I think it could be improved. Put a second and step up the power but lost at 05 40

Date Sunday October 10-11, 1943 H-Y Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
						Slit					
9467	HD 179094	19 06.1	+52 16	I-25	E 103a-O	008	10.3	18 22	19 26	1	1 16
9468	191329	20 04.3	+49 57	"	"	"	10.3	19 29	20 13	2	1 04 W
9469	200740	21 00.2	+49 57	"	"	"	10.3	20 15	21 15	3	1 08 W
9470	209112	21 55.9	+62 13	"	"	"	10.2	21 18	22 24	4	1 [illegible]
9471	218416	23 02.8	+52 17	"	"	"	10.2	22 27	23 11	1	1 [illegible]
9472	224870	23 56.3	+49 25	"	"	"	10.2	23 13	23 51	2	1 51
9473	2952	00 27.7	+54 21	"	"	"	10.0	23 54	00 34	3	62 W
9474	7758	01 12.2	46 53	"	"	"	10.0	00 38	1 38	4	80 W
9475	15138	02 21.2	50 07	"	"	"	10.0	1 43	2 15	1	48 W
9476	[illegible]53	02 [illegible]3	55 05	"	"	"	10 0	2 19	2 59	2	32 W
9477	21004	03 183	53 35	"	"	"	10 0	3 02	3 26	3	63
9478	21794	03 257	57 32	"	"	"	10 0	3 29	3 57	4	16
9479	24141	03 456	57 40	"	"	"	10.1	4 00	4 12	1	20 W
9480	34332	05 116	40 21	"	"	"	10 0	4 17	4 57	2	41 W
9481	40083	05 516	54 33	"	"	"	10.0	5 02	5 34	3	37 W
	Fog [illegible]										

From ent 2361

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
26	1 16 W	+52 20	0	6.93	K0 1½ 1½ 1½	N E wind.
3	1 04 W	+5 04	0-1	6.58	A2 1½ 1½ 1½	GET HEAVY
	1 10 W	-50 07	0-1	7.45	K0 1½ 1½ 1½	Too
	1 24 W	+62 35	1-0-1	7.51	M6 1½ 1½ 1½	Seeing keeping control, then improving.
	1 04 W	+52 30	1-2	7.26	K0 1½ 1½ 1½	
	0 52 W	+49 41	2	7.36	K0 1½ 1½ 1½	Too "
34	62 W	54 33	1	7.14	K0 1½ 1½ 1½	" "
59	80 W	47 06	1-0	7.41	K0 1½ 1½ 1½	Heavy
2 15	48 W	50 19	1-0	6.53	F0 1½ 1½ 1½	" "
	1 32 W	55 16	1-0	6.62	A2 1½ 1½ 1½	" "
	63 W	53 42	1-2	6.67	F0 1½ 1½ 1½	hazy line " "
	1 26 W	57 38	1-2	6.83	F5 1½ 1½ 1½	" "
	1 20 W	57 46	1-2	5.79	A0 1½ 1½ 1½	1st cut plate " "
	41 W	40 24	1-2	7.32	K0 1½ 1½ 1½	Strong
	37 W	54 31	1-2	7.26	K0 1½ 1½ 1½	Strong
					7-5	

Date Monday Oct 11-12/43 Y-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9482	HD 183611	19 25.3	62 21	I-25"	E1030-O	008	+13.0	18 27	19 37	1
9483	191372	20 045	67 45	"	"	"	+13.1	19 43	2053	2
9484	204599	21 246	59 19	"	"	"	+13.0	20 57	21 57	3
9485	213720	22 284	53 31	"	"	"	+13.0	22 00	23 40	4
9486	220074	23 158	61 26	"	"	"	+13.0	22 44	23 24	1
9487	223470	23 376	63 58	"	"	"	+13.1	23 46	00 25	2
9488	12932	00 01.0	07 46	"	"	"	-13.1	23 55	00 21	3
9489	18345	00 318	04 05	"	"	"	+13.0	01	02 20	4
9490	20162	00 365	44 58	"	"	"	+13.0	00 40	02 40	1
9491	24154	03 457	21 44	"	"	"	+13.0	02 57	03 41	2
9492	27396	04 462	09 32	"	"	"	+13.0	03 57	04 57	3
9493	35150	05 287	26 29	"	"	"	+13.0	04 11	04 41	4
	Comet									

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS Focus 23.55
71W	62 26	0-1	764	KS- 1/2 1/2 1/2	waited for * to cross meridian
49W	67 51	0-1-2	791	Ma 1/2 1/2 1/2	
93W	59 29	1-2	779	Ma 1/2 1/2 1/2	hazy
72W	53 44	1-2	747	KO 1/2 1/2 1/2	seeing improving, clearing
68W	61 40	2-3	780	KS 1/2 1/2 1/2	
1 49W	64 [illegible]	3	820	Ma 1/2 1/2 1/2	
0 [illegible]	117 [illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	3	[illegible]	[illegible]	
0 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
0 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
0 [illegible]	[illegible]	3	[illegible]	[illegible]	
0 [illegible]	[illegible]	3	[illegible]	[illegible]	
0 [illegible]	12 25	3	[illegible]	[illegible]	Hazy, clouds near horizon, clearer overhead. Focus good.
					Note low stars the next evening when

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Date Sunday 2-7-43 12-13 1943 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9494	HD 181597	19 16.0	+49 23	I-25	E-103a-J	2.7	17.0	18 15	19 01	1	
9495	186532	19 39.9	+55 13	"	"	"	17.1	19 34	20 34	2	
9496	205314	21 29.4	+49 30	"	"	"	17.2	20 36	21 56	3	
9497	206509	21 37.4	+54 35	"	"	"	17.2	20 59	21 45	4	
9498	213389	22 25.9	+48 51	"	"	"	17.2	21 47	22 43	1	
9499	221661	22 38.9	+44 31	"	"	"	17.2	22 45	23 19	2	
9500	225276	23 58.8	+36 06	"	"	"	17.2	23 37	00 23	3	
9501	7351	01 05.6	25 01	"	"	"	17.0	00 32	01 42	4	
9502	24506	03 50.5	24 12	"	"	"	17.0	02 [illegible]	03 [illegible]	1	
9503	40122	05 55.6	43 22	"	"	"	17.0	04 24	04 [illegible]	2	
	Stone Star			Blank Sheet							

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
0 43 N	+19 23	0-1	7.26	K0	½ 1½ 1½	NE wind. Low light levels.
1 [illegible] N	-55 9	0-1	787	16	½ 1½ 1½	Tragic.
[illegible]	+49 53	1-2	5.76	A7	1½ 1½ 1½	GET STRONG
1 11 N	+54 37	1-2	[illegible]	K0	1½ 1½	[illegible] low clouds.
23 N	+49 53	1-2	7.52	K0	1½ 1½ 1½	Light clouds
[illegible]	[illegible]	1-2	[illegible]	F5	1½ 1½ 1½	
1 [illegible] N	+24 [illegible]	2	7.59	K2	1½ 1½ 1½	[illegible]
2 17 W	29 14	2-3	7.89	M1a	1½ 1½ 1½	[illegible] clouds.
23 W	24 5	2-3	7.38	K0	1½ 1½ 1½	More clouds.
5 22 E	41 23	2	7.52	K0	1½ 1½ 1½	Waited for clouds, rather cut, clear.
					7:5	more clouds, stop gun at 4[illegible]

Date Thursday 1942 October 14-15 N-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9504	H.D. 182635	19 20.5	+26 15	1-25	E 103a O	.068	+15.3	18 13	18 57	1	C 43W
9505	190658	20 00.9	+15 13	"	"	"	+15.7	19 02	20 18	2	1 26W
9506	203557	21 19.7	+36 55	"	"	"	+15.6	20 22	21 34	3	1 26W
9507	214979	22 36.9	+30 26	"	"	"	+15.7	21 38	22 34	4	1 09W
9508	221776	23 29.9	+37 29	"	"	"	+15.7	22 38	23 28	1	1 [illegible]
9509	2924	00 27+	+37 01	"	"	"	+15.6	23 32	23 54	2	C 39W
9510	6953	01 04.9	+24 36	"	"	"	+15.4	23 57	00 41	5	1 [illegible]

Friday Oct 15-16, 1943 Cloudy all day long rain.

Saturday October 16-17, 1943 Cloudy with rain.

Sunday Oct 17-18 1943 Cloudy

Cloudy all day. clearing at sunset. Thick haze near horizon.
From 23.53 E

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
57	0 48W	+36° 19'	1-2	7.45	K0	1½ 1½ 1½	[illegible] seeing [illegible] sharp [illegible]
13 2	1 28W	+15 17	1-2	7.91	M0	1½ 1½ 1½	haze
3	1 26W	+37 06	1	7.77	K5	1½ 1½ 1½	"
2 31	1 09W	+30 39	1-2	7.66	K5	1½ 1½ 1½	"
3 22	1 03W	+37 42	1-2	7.52	K5	1½ 1½ 1½	"
2 51	0 38W	+27 16	1-2	6.54	A0	1½ 1½ 1½	"
47	[illegible]	[illegible]	2	7.2+	K5	1½ 1½ 1½	[illegible] clear up at 3° sky thick

			MC	SC	SW	MT	ST
Oct.	18	12	−13.2	+19.9	+22' reset	−03' reset	−0.1m

Date Monday Oct 18-19 / 43 Y-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9511	HD 183589	19 25 2	2 41	I-25"	E103a-O	008	+5.0	18 28	19 12	1	W
9512	HD 217019	22 52 5	3 15	"	"	"	+4.9	22 23	23 13	2	48W
9513	2913	00 27 3	6 25	"	"	"	+4.8	23 17	23 29		W

Focus 23.68

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
9 12	73 W	+2 46	1-2	7.56	KS	1½ 1½ 1½	clouds. cleared 21 32 then plenty of trouble with focusing belt
23 13	48 W	+3 30	1	7.50	KO	1½ 1½ 1½	
2329	29 W	+6 37	1	5.66	AO	2½-2½	clouds

Last at 0 30 sky completely clouded no sign of clearing. Put on

Plates ~~not developed~~.

Turned out new small pulley for focusing gear. I think pulley will keep up better, but did not have time to do this. Y.

Date Sunday, October 19-20 1943 M-L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9514	HD 218261	23 01.5	+19 22	I - 25"	E-103aO	Sl. .008	+5.0	21 58	22 40	3	
9515	1527	0 14.4	+40 10	"	"	"	5.2	22 43	23 37	4	
9516	7578	1 10.7	+32 36	"	"	"	5.1	23 40	00 40	1	
9517	15161	02 24.3	33 23	"	"	"	5.1	00 49	01 49	2	
9518	26605	04 07.4	37 43	"	"	"	5.1	01 49	02 46	3	
9519	36041	05 23.8	39 46	"	"	"	5.0	02 57	04 01	4	
9520	47220	06 32.4	02 48	"	"	"	5.0	04 08	05 18	1	
9521	50277	06 47.4	08 30	"	"	"	5.0	05 21	06 01	2	
	{ Focus Test				Outside through base						

From left at 23.18

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
Cloudy most of day. Rain late afternoon. Partially clearing around dark. Partly cloud up about 18^{35} but folded in before starting. Light drizzle 18^{50}. Clouds with part clear intervals thereafter. A few scattered clouds during exposure.						
1 10 W	+19 25	0	6.92	F8	1½ 1½ 1½	
0 54 W	+40 24	0-1	7.41	K0	1½ 1½ 1½	
1 00 W	+32 49	0-1	7.31	K0	1½ 1½ 1½	
0 56 W	33 33	0-1	7.25	K0	1½ 1½ 1½	
0 10 W	37 49	1	7.33	G5	1½ 1½ 1½	
0 29 W	39 45	1	7.52	K0	1½ 1½ 1½	
0 17 W	02 45	1-0	7.42	K0	1½ 1½ 1½	Setting wind slewing past setting circle
0 45 W	08 26	0	5.90	A5	1½ 1½ 1½	
					7-5	

Date Wednesday Oct 20-21 Y-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9522	HD 181122	19 14.1	+9 27	I-25"	E103a-O	008	+8.9	6 05	6 51	3	1.2 W
9523	HD 193317	20 14.0	42 24	"	"	"	+8.9	6 56	7 36	4	.7 W
9524	HD 203358	21 16.6	32 02	"	"	"	+8.8	7 40	8 30	1	4.9 W
9525	HD 207446	21 43.9	36 06	"	"	"	+8.6	8 33	9 25	2	7.6 W
9526	HD 218103	23 00.2	0 46	"	"	"	+8.7	9 30	10 20	3	5.5 W
9527	HD 221662	23 28.9	20 18	"	"	"	+8.7	10 24	11 14	4	7.9 W
9528	7229	01 07.5	29 33	"	"	"	+8.8	11 18	11 58	1	2.5 W
9529	12479	01 57.2	13 00	"	"	"	8.6	00 01	01 01	2	0.3 W
9530	21179	03 20.0	71 31	"	"	"	8.6	01 05	02 28	3	0.4 W
9531	25274	03 55.9	68 24	"	"	"	8.6	03 33	03 53	4	3.5 W
9532	26101	04 02.8	68 16	"	"	"	8.6	03 56	04 20	1	1.4 W
9533	39429	05 47.5	66 05	"	"	"	8.6	04 23	04 51	2	3.5 W
9534	40035	06 51.4	75 35	"	"	"	8.6	04 55	05 27	3	.8 W
9535	46101	06 42.3	55 26	"	"	"	8.6	05 32	05 58	4	1.7 W

Yerkes Std

Centered through tube

Focus 23.64

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
1 21 W	+9 30	1	7.38	K0	1½ 1½ 1½	
57 W	42 34	1-2	7.52	K2	1½ 1½ 1½	bright wind good
48 W	32 13	1-2?	7 2/2 2	G5	1½ 1½ 1½	← unresolved double - hard to guide guides on ⊕ * as well as possible
76 W	36 20	1-2	7.78	K5	1½-1½ 1½	
5 5 W	0 59	1	7.38	K0	1½-1½ 1½	
79 W	20 31	1-2	7.64	Ma	1½ 1½ 1½	good
25 W	29 45	1-2	7.40	K0	1½ 1½ 1½	
0 39 W	13 11	1-2	7.63	Mb	1½-1½-1½	
0 41 W	71 30	2	8.15	Ma	1½-1½-1½	
1 30 W	68 30	3	7.21	K2	1½-1½-1½	
1 50 W	68 22	3	7.41	K0	1½-1½-1½	
0 38 W	66 04	3	7.50	K0	1½-1½-1½	
1 08 W	75 35	3	7.70	K5	1½-1½ 1½	
1 09 W	55 22	3	7.53	K0	1½-1½-1½	good
					7-5	

Date Thurs Oct 21-22 Y-L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9536	HD 179933	19 09.4	65 49	I 2.5	E103a O	.008	+13.0	6 05	6 21	1
9537	184102	19 278	79 24	"	"	"	13.0	6 25	6 35	1
9538	187764	19 466	68 11	"	"	"	13.1	6 39	6 59	2
9539	190252	19 590	70 05	"	"	"	13.1	7 03	7 13	2
9540	196797	20 345	81 05	"	"	"	?	7 27	7 39	3
9541	197508	391	83 17	"	"	"	?	7 43	7 51	3
9542	199095	498	82 10	"	"	"	?	7 57	8 02	4
9543	"	"	"	"	"	"	?	8 03	8 09	4
9544	197101	20 364	55 39	"	"	"	13 0	5 28	8 46	1
9545	209258	21 569	74 31	"	"	"	13.0	8 51	9 21	1
9546	217673	22 573	56 34	"	"	"	130	9 26	9 48	2
9547	218560	23 039	63 41	"	"	"	130	9 52	10 10	2
9548	222682	23 377	61 07	"	"	"	130	10 14	10 36	3
9549	224209	23 517	82 38	"	"	"		10 42	10 52	

Cont. on next page

Focus 23.57

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comb.		REMARKS
51 W	65 53	2	625	A2	2½ - 2½	set 3	(Hazy) good
50 W	?	2	606	A0	2½ - 2½	" 8	" good
53 W	68 17	2	663	F0	2½ - 2½	set 3	Too hazy
65 W	70 12	2	724	G5	2½ - 2½	" 8	Too hazy
47 W	?	3	662	K0	2½ - 2½	set 3	Pos * E. left m finder Too hazy
55 W	?	3	622	A2	5	" 8	Too hazy
55 W	?	3	569	A0	5	set 3	good
02 W	?	3	569	A0	5	" 8	good
49 W	55 47	3	678	F0	2½ - 2½	" 3	stopped T. and pilot etc Too hazy
04 W	74 44	3+	782	K5	1½ 1½ 1½	" 8	"
30 W	56 48	3+	757	K2	2½ - 2½	" 3	Too hazy
50 W	63 55	4	741	K0	2½ - 2½	" 8	"
33 W	61 21	4	761	K2	1½ - 1½ - 1½	set 3	Too hazy
40 W	62 52	4	642	A0	2½ - 2½	" 8	"

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Date Oct 5 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9550	HD 5273	00 49.4	48 09	I=25"	Eastman 0	008	+12.9	11 09	11 49	4	-8W
9551	6497	01 00.9	56 24	"	"	"	12.9	11 51	00 13	4	
9552	18991	02 38.2	55 41				12.9	00 09	00 41	1	
9553	20162	03 00.3	44 38				12.9	00 41		1	
9554	25602	03 56.6	19 29				12.9	01 04	01 01	2	
9555	31811	04 50	9 43				12.9	01 06	01 02	2	
9556	34748	05 30.0	25 06				12.9	01 07	01 13	3	
9557	37211	05 49.8	11 37				12.9	01 06	01 46	1	
	Sirius Ext			Outside through Haze							

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
48 W	48 21	3	795	Ma	1½ 1½ 1½	Set 3 Too Thin
51 W	56 37	3	758	KO	1½ 1½ 1½	" 8 " "
0 39 E	55 10	3	750	KO	1½ 1½ 1½	Set 3 Longer Exposure. Too Thin
0 35 N	41 09	3-2-10	777	Ma	½ 1½ 1½	8 Wind picking up good
0 40 W	53 00	1	742	KO	1 1½ 1½	Set 2 Too thin
0 36 W	19 41	1	744	KO	1½ 1½ 1½	3 Too thin
0 03 W	03 35	1	744	KO	1 1½ 1½	good
0 33 W	11 03	1	705	G-	1½ 1½ 1½	good
					7-5	

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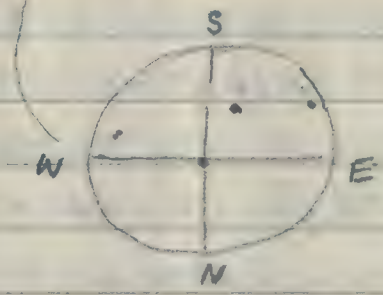
Date Oct 22-23 Frid. Y Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9558	HD 36891	5h 29.8	40 07	I-2.5	E1030-0	008	+70	4 28	5 08	2	21W
9559	48073	6 36.5	37 15	"	"	"	+70	5 13	6 03		1 10W

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS Focus 23 65
5 05	1 21 W	40 08	1-0	7.18	KO	2½ - 2½	Set 3 Stars
6 03	1 10 W	37 09	1-0	7.24	KO	2½ - 2½	1 8 clouds good



Under field

cloudy all Evng. cloudy at 1^00 a m
woke up 4^30 D.S.T. clear

Date Sunday Oct 24-25 1942 H-Y **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
9560	HD 213641	22 27.9	+15 20	I-25	E-103a-O	.008	7.0	20 50	21 42		3
9561	221491	23 27.5	+34 25	"	"	"	7.0	21 45	22 21		
9562	1075	00 19.9	+30 59	"	"	"	7.1	22 23	23 33		4
9563	3375	01 17.9	+32 42	"	"	"	7.2	23 36	0 16		
9564	13542	02 06.9	23 43	"	"	"	6.9	0 30	1 00		1
9565	14689	02 11.5	23 19	"	"	"	6.9	1 03	1 16		
9566	32482	04 58.4	21 09	"	"	"	6.1	3 32	5 00		2
	Focus left										

strong NE wind.
Clouds moving + setting 19^30 – 20^40

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	0 4 W	-1° 23	1-1	7.36	K0	1½ 1½ ½	setting 3 1 pale clouds. good
	0 4 W	+1 39	1-1	6.55	A0	1½ 1½ 1½	SET STRONG good
	1 14 W	+21 12	1	7.79	K5	1½ 1½ 1½	setting 3 Bad sky. good
	48 W	+23 52	1	7.12	F5	1½ 1½ 1½	. 8 slightly strong
	43 W	+33 52	1	7.19	K0	1½ 1½ 1½	setting 3 good
1 15	5 5 W	23 28	1-0	7.28	G5	1½ 1½	. 8 cloudy 1½ light for 2 hrs (last ½) poor
1 52	5 0 W	21 11	1-0	7.34	K0	1½ 1½ 1½	setting 3 cloudy hazy sky. poor
						1-5°	. 8

5 plates to develop

from K

Date Saturday October 25-26 L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9567	H.D. 26923	04 10.2	03 57	I 25	E 103a O	Sec 303	4.5	01 40	02 10	2
9568	" 32263	04 56.7	00 34	"	"	"	4.5	02 14	02 30	2
9569	" 34295	05 18.6	24 45	"	"	"	4.5	02 35	03 41	3
9570	" 39743	05 49.4	49 01	"	"	"	4.4	03 06	04 16	3
9571	" 40054	05 51.6	49 35	"	"	"	4.4	03 20	04 40	4
9572	" 41400	06 06.8	31 12	"	"	"	4.3	04 [illegible]	[illegible]	4
9573	" 42276	06 21.2	12 44	"	"	"	4.2	05 15	05 [illegible]	5
	Focus Plate			Cuticle strength base						
		Sunday	Oct. 26-27, 1901			H-L				
	Clear most of day, clouds, some wind [illegible]									
	by 10 P.M. N.E. wind and rain 10 P.M.									

Focus set at 23.69

Hour Angle End	Declination	Seeing	Ptg. Mag.		comp	REMARKS
						Clearing shortly after midnight, came up at midnight, some clouds around, waited till they cleared off.
C.05 E	06 02	2	7.10	G5	1½·1½·1½	set 3
C.[illegible] E	01 33	2	7.15	No	1½·1½·1½	· 8 Light clouds good
C.17 W	34 43	2	7.48	No	1½·1½·1½	· 5 Light clouds good
C.?? W	49 20	2	7.22	G5	1½·1½·1½	· 8 good
C.42 W	09 34	2 1	6.96	G5	1½·1½·1½	· 3 Haze strong
C.19 W	51 11	2·3	7.26	No	1½·1½·1½	· 8 light clouds
C.16 W	12 35	2	7.25	No	1½·1½·1½	good
					7·5	4 plates
						Focus set
Tuesday Oct. 28-29, 1942			N			
Rain most of day and night, stopping after dawn.						Oct. 27 MC −11·0 SC +10·8 SW −15° MT −07·8 ST 0m0
4.45 PM. Wed. Mirror Swearing - Put heat on						

Date Friday Night Dec. 29-30, 1943 H-Y Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9574	HD 179994	19 06.1	+52 16	I-25	[illegible]	.008	9.1	17 58	18 36	1	
9575	197249	20 37.4	+17 11	"	"	"	9.0	18 39	19 11		
9576	203856	21 19.9	+24 06	"	"	"	9.2	19 14	19 54	2	
9577	207527	21 51.7	+31 49	"	"	"	9.3	19 56	20 56		
9578	216201	22 45.8	+9 31	"	"	"	8.3	20 58	21 42	3	
9579	221112	23 24.1	+23 31	"	"	"	9.2	21 45	22 29		
9580	11624	1 49.0	+36 37	"	"	"	5.9	22 33	23 13	4	
9581	8289	1 18.0	+19 57	"	"	"	7.0	23 16	00 00		
9582	15328	2 22.9	1 31	"	"	"	8.9	00 06	1 06	1	
9583	18482	2 53.2	40 38	"	"	"	8.7	1 12	1 48		
2584	21371	3 24.6	33 19	"	"	"				2	

Clouds all day. Clearing at sunset. All night W to NW wind.

Exposure 2363

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
[illegible] W	+52 20	0-1	6.93	KO	1½ 1½ 1½	Setting 3 [illegible]
0 44 W	+17 22	2	7.27	K2	1½ 1½ 1½	" 8 " " "
0 44 W	+24 16	2-1	7.42	K2	1½ 1½ 1½	" 3 Wind raising rapidly, good
1 10 W	+20 58	1-2	7.80	K5	1½ 1½ 1½	" 8 [illegible]
1 04 W	+8 49	1-2	7.50	KO	1½ 1½ 1½	" 3 Fair Images " "
1 15 W	+33 [illegible]	1-2	7.45	K3	1½ 1½ 1½	" 7 Wind. " "
0 27 E	+31 52	1-2	7.39	KO	1½ 1½ 1½	" 3 [illegible] good
52 W	+21 11	1-2	7.48	K5	1½ 1½ 1½	" 8 Fair Images " "
53 W	+1 42	1	7.49	KO	1½ 1½ 1½	" 3 Some Turning objects up
1 05 W	40 43	1-2	7.14	K2	1½ 1½ 1½	" 8 Good " "
			6.91	KO		" 3 no good closed 4[30] DST Raining

Date Saturday 1943 October 30-31 N - L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9584	HD 210905	22 08.5	+58 34	1-25	E-103a O	Set 0.008	+07.5	20 02	20 42	2	(50 W)
	211314	22 54.8	+52 06	"	"	"					
9583	HD 51000	06 304	33 30	1 25	E 103a O	Set 0.008	10.0	04 17	04 43	3	
9586	32100	05 54.8	32 32				10.5.0	04 46	05 13	3	
9587	C 1799	07 45.6	03 32				10.5.0	05 21	05 49	4	
	Focus Test			On 1.5	Shot						

Clear at sunset, gradually clearing.

Focus set 23.63 E

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
(50 W)	+58 48	2-1	7.52	K0	1½ 1½ 1½	set. 8; note this. (Error much too strong plate when loading)
			7.48	K2		8 3 Clouds while setting. Snow - or some kind of precipitation. Cloud up/down range
		Focus set at 23.68				Poor diff from 0.40 – 5.50
0 07 W	77 46	1-0	6.57	G0	1½-1½-1½	set. 8 much too strong
0 36 W	72 27	1-0	6.74	F0	1½-1½-1½	8 " " "
0 55 W	67 28	1	7.02	G5	1½-1½-½	good
					1.5	

Date Sunday. Oct 31 - Nov 1 Y Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9588	HD 47415	6 33.4	24 41	I-25	E103a-O	.008"	+5°.9	4 27	4 51	1	36 W
9589	52556	6 56.6	15 28	"	"	"	+5°.9	4 54	5 14		36 W
9590	53257	6 59.3	22 47	"	"	"	+5°.9	5 17	5 27	2	46 W
9591	52913	6 57.9	9 17	"	"	"	+5°.9	5 30	5 44		04 W
9592	53510	7 00.2	9 18	"	"	"	+5°.9	5 47	6 09	3	29 W
	Focus outside thru hose										

clear all day. clouded at sunset. cloudy till about 4^00 S.T.

Focus unchanged

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
36 W	24 39	2	6.90	FS	2½ - 2½	Setting 3
36 W	15 24	2	689	KO	2½ - 2½	" 8
46 W	22 41	2	5.91	AO	2½ - 2½	" 3 (fuzzy last)
1 04 W	9 12	1-2	599	A2	2½ - 2½	" 8
1 28 W	9 14	1-0	702	KO	2½ - 2½	" 3 Seeing up at end.
					7 - 5	" 8

(suspension damp)

focus ok

	I-C	SC	HT W ST
1/c 1	-11 9	+07.8	-080 +C

Date Mon. Nov 1-2 Y-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9593	HD 211029	22 093	62 48	I-2.5"	E 103a-0	008	+9.2	8 11	8 51	04W
9594	" 217944	22 592	58 01	"	"	"	+9.0	8 54	9 27	46
9595	22 861	23 20.6	71 05	"	"	"	+9.0	9 32	9 46	12 W
9596	221246	23 25.3	48 38	"	"	"	+9.0	9 52	10 18	4W
9597	224128	23 503	25 24	"	"	"	+9.0	10 23	11 01	32W
9598	6211	00 58.1	51 58	"	"	"	+9.0	11 06	11 26	9W
9599	6540	01 012	52 58	"	"	"	+8.9	11 32	12 00	0
9600	135.9	02 09.5	47 21	"	"	"	+8.9	12 03	12 33	4

Tuesday Nov 2-3, 1943 - H. Cloudy all night. Light showers.

Clouds early eve. 5+7 thick around horizon 8 5-0

FOCUS 23 63 ±

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
8 51	1 04W	63 00	1-2	7.41	Ma	1½ 1½ 1½	Setting 3 ~~much too~~ strong
9 12	44W	58 14	2	7.28	Gs	1½ 1½ 1½	" 8 much " strong
9 40	37W	71 19	3+	7.13	K0	1½ 1½ 1½	" 3 strong
9 18	1 14W	48 48	3	7.45	K2	1½ 1½ 1½	" 8 good
11 01	1 32W	25 37	3	7.85	K5	1½ 1½ 1½	" 3 strong
11 26	49W	52 12	3	7.34	K2	1½ 1½ 1½	" 8 strong
12 00	1 20	53 11	3	7.49	K0	1½ 1½ 1½	" 3 large. good
1 ??	2 45	47 33	3	7.??	K0	1.5 1.5 1.5	" 3 [illegible] good

at 12 33 Big sigh of relief
at 3.00 Clear sky.
Retired

	MC	SC	SW	MT_s	ST_m
Nov. 3	-10·7	+06·7	-43·7	-13·7	-0·2

Date Wednesday Dec 3-4/43 L-Y Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
9601	HD. 219102	23 06.2	00 46	I-21	E-103a-O	See .038	+7.0	08 12	08 22	1	
9602	" 221231	23 25.8	38 06	"	"	"	+7.0	08 47	09 09	2	

Rain clouds, early evening

Focus 23.65

Finding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
	0 22 W	00 59	1	7.38	Ko	1½ · 1½ · 1½	
	0 33 W	38 20	1	7.21	Ko	1½ · 1½ · 1½	Clouds towards end of exp.
							Cloudy all night

Date Sunday 1943 Nov 4-5 N-H **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9603	HD 214714	22 35.0	+37 04	1-25	E-103a-O	slot .008	+06.3	20 05	20 23	2
9604	217214	22 54.8	+37 06	"	"	"	+06.3	20 37	21 31	3

Saturday Nov 6-7, 1943 - N-H — Cloudy all night

Sunday " 7-8, " - H — Cloudy all night. Flurries

Mon " 8-9 — Y — Cleared for about 1 hr around

Tues " 9-10 — H — Cloudy. Broke after half

Cloudy all day. Cloudy [illegible] of the sun.

Focus set 23.67 t

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	0 27 W	+ 37 18	2	6.92	G5	1½ 1½ 1½	clouds 20.32 –
	1 10 W	+ 52 21	2 - 1	7.48	K2	1½ 1½ 1½	milky sky – thinning
							Closed up 21 55

Date Thursday 1942 Nov. 11-12 N. H. **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9605	HD 179094	19 06·1	+52 16	1-25	E-102a-O	set .008	+03·2	17 36	18 04	4
9606	199611	20 53·3	+50 21	"	"	"	+03·2	18 02	18 22	1
9607	202502	21 11·7	+63 39	"	"	"	+03·2	18 26	18 56	2
9608	208606	21 53·3	+61 04	"	"	"	+03·2	19 01	19 39	3
9609	215515	22 40·7	+51 59	"	"	"	+03·2	19 42	20 37	4
9610	221905	23 30·9	+24 01	"	"	"	+03·2	20 42	21 19	1
9611	4351	00 40·6	+34 42	"	"	"	+03·0	21 50	22 26	2
9612	7589	01 09·9	+71 13	"	"	"	+03·0	22 15	22 55	3
9613	HD 25519	03 94·2	+35 22	"	"	"	+03·2	2 25	2 51	4
	Stars 5-7 - just the image			7s - 5s						
			Nov 12-13	Eight Snow off and on all night						

Focus at 23.71 ±

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	2 00 W	+ 52 19	1	6.93	K0	1½ 1½ 1½	Cirrus over all N.E.
	0 30 W	+ 50 22	1	6.08	F0	1½ 1½ 1½	
	0 46 W	+ 64 20	1	6.97	G0	1½ 1½ 1½	
	0 4 W	+ 61 16	1-2	7.40	K5	1½ 1½ 1½	
	0 5 E	+ 72 11	1-2	7.73	K2	1½ 1½ 1½	
	1 14 W	+ 24 13	1-2	7.95	M0	1½ 1½ 1½	
	0 26 W	+ 54 59	1-2	6.58	A2	1½ 1½ 1½	
	0 47 W	+71 26	2	7.38	K0	1½ 1½ 1½	Clear air setting fine. Wind increasing. Can pass Clear shutter.
							Clouds + haze from S.W. to N.E. along 2nd; thin.
	2 W	+ 75 25	1-2	7.37	K2	1½ 1½ 1½	Haze. Sky dull but not overcast. Up to 2 35 2 thin patchy cirrus. Sky 8/E clear N.

Date Saturday 1943 Nov 13-14 N.Y. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9614	HD 205110	21 48 9	+06 23	1.25	E-103aO	.008	+01 4	19 10	19 42	1	
9615	21 1948	22 43 7	+36 52	"	"	"	+01 3	19 46	20 12	2	
9616	21 9310	22 09 7	+23 34	"	"	"	+01 2	20 17	21 15	3	
9617	1419	00 11 2	+10 30	"	"	"	+01 2	21 39	22 16	4	
9618	76 17	01 11 3	+40 22	"	"	"	+01 2	22 22	23 14	5	
9619	1:018	02 08 3	+13 58	"		"	+01 2	23 18	00 18	2	
	Focus test			"							

Clouds and conditions. Clearing about 18.45. Clouds still along NW horizon. Focus at 23.74 ±

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	0 51 W	+06 36	1	7.14	G0	1½ 1½ 1½	Some cirrus. Considerable cloud
	0 38 W	+57 07	1-2	7.00	K0	1½ 1½ 1½	
	1 14 W	+38 47	2	7.49	K0	1½ 1½ 1½	Cloud worst during turning: clears 2C 36 - 50 — continued 21 08
	1 12 W	+10 52	1-2	7.20	K0	1½ 1½ 1½	Clouds 45 - 22 25
	1 12 W	+44 25	2-3	7.66	K5	1½ 1½ 1½	Clouds 22 52 - 23 04. Snowflurries.
	1 24	+44 11		7.23	G5	1½ 1½	Clouds 23 28 - (more dense)
						7- 5·	

Date Nov 14-15. Sunday Y-H. **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9620	[illegible]	19 58	[illegible] 16	I 24"	[illegible]-0	008	-0.5°	17 45	18 05	3	2 12W
9621	"	190964	20 02.4	51 33	"	"	"	-0.6°	18 07	18 41	4	1 50W
9622	"	191096	20 03.1	56 03	"	"	"	-0.5°	18 45	18 57	1	2 07W
9623	"	206[illegible]2	21 38.3	45 18	"	"	"	-0.5°	19 03	19 43	2	1°W
9624	"	21[illegible]818	22 36.2	53 20	"	"	"	-0.6	19 48	20 08	3	.5W
9625	"	215159	22 58.0	53 23	"	"	"	-0.6	20 11	20 43	4	1.7W
9626	"	216102	22 45.0	62 24	"	"	"	-0.5°	20 50	21 20	1	4.8W
9627	"	2951	00 27.7	54 21	"	"	"	-0.7	21 27	22 01	2	6W

Sunday Nov. 16-17 1913 H

Obs. with [illegible] Left [illegible] Left about 23[h]. Almost done 23[h] 45[m]. Clouding over the

Nov. 23.78

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comb Instrument	REMARKS
8 05	2 12 W	52 20	3	6.93	KO	1½ - 1½ 1½	
6 -	1 50 W	51 40	3	763	Ma	1½ 1½ 1½	
1 55	2 07 W	56 10	3	646	FO	2 - 2	
9 - 3	77 W	45 30	3	782	Mb.	1½ - 1½ 1½	
50 - 1	45 W	53 35	3	710	KO	2 - 2	
10 - 1	1 17 W	53 37	2 - 3	733	K2	1½ - 1½ - 1½	clouds
9 - 2	1 48 W	62 37	2 - 3	716	KO	1½ 1½ - 1½	" haze
7 - 3	46 W	54 34	2 ?	714	KO	1½ 1½ 1½	haze very thick

Had by 22^m clouds over to
Total Darkness of sky. Cloud 2^m

	MC	SC	SW	MT	ST
Nov. 15	-07.0	+00.3	-1 12.7	-25.0	-0.m2

Monday - Cloudy all night.

70°. 50' 1^m +30 EST

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Date ... 1943 November 18-19 ... N.H. ... Julian Day ...

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9628	HD 179094	19 06·1	+52 16	1-25	E-103a-O	.008	+02·6	17 38	17 58	1	-2 22 W
9629	184936	19 21 6	+39 37	"	"	"	+02·8	18 03	18 35	2	2 32 W
9630	203255	21 16 6	+32 02	"	"	"	+02·8	18 42	19 44	3	
9631	215030	22 37·2	+41 03	"	"	"	+02·8	19 52			

(Dome apparently unlocked.
Temps [illegible] lights on.
Patch of fog on mirror when opened.
Many bugs around lights.
Focus set 33.72 ±

Hour Angle End	Declination	Seeing	Ptg. Mag.				REMARKS
2 22W	+52 19	2-3	6.93	Ko	1½	1½ 1½	
2 32W	+60 [illegible]	3-2	7.61	[illegible]	1½	1½ 1½	
1 56W	+32 12	2	7.22	[illegible]	1½	1½ 1½	double [illegible] set on SP star / [illegible]
							Guiding is 26 by [illegible]
(1 11W)	+41 15	2	7.07	Ko	1½	1½ 1½	star set 20 :6
							First [illegible] report at 23 45.
							[illegible]

Friday. Cloudy first half - partially clear 200. Tried to open up - cable of dome otherwise [illegible] off. Once again about 4 managed to get dome closed - or nearly so.

	MC	SC	SW	MT	ST
Nov. 22	-03.4	-02.9	-1 27.1	-00.4 reset	+0.2

Date Tuesday November 23-24, 1943 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
						Set					
9632	HD 217459	22 55.7	+02 29	I-25	E-103a-O	008	+0.5	19 23	20 13	1	1 W
9633	7712	01 30.0	+40 34	"	"	"	+0.4	20 19	21 13	2	1 E
9634	13522	02 06.9	+23 43	"	"	"	+0.4	21 16	21 56	3	1 E
9635	17228	02 40.9	+35 35	"	"	"	+0.5	21 59	22 37	4	1 E
9636	20063	03 08.4	+42 08	"	"	"	+0.4	22 40	23 16	1	1 E
9637	26311	04 04.6	+33 19	"	"	"	+0.6	23 19	23 59	2	1 E

Trans at 23.75

Strong N wind. Transparency good.

ding Time P.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.				REMARKS
0 13	1 06 W	+02 43	0	6.96	KO	1½	1½ 1½	Image large & very unsteady.
13	0 29 E	+40 47	0-1	7.39	KO	1½	1½ 1½	(Star seems blue from K.? Prairie OK.)
56	0 22 E	+23 54	1-0	7.19	KO	1½	1½ 1½	Very windy.
0	0 16 E	+35 45	1-0	7.16	G5	1½	1½ 1½	
2	0 04 E	+42 18	0	6.94	G5	1½	1½ 1½	
2	0 17 E	-33 24	0	6.91	KO	1½	1½ 1½	Clouds; star gone 23^{57}. Still seen 23^{33}
								Closed up 0^{15}; cloudy with very strong wind & trace of snow.

Date Nov 24-25 Wednesday Y Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9638	HD 179094	19 06.1	52 16	I-25	E103a O	008	+4.4	5 31	5 57	1	2 44W
9639	HD 206040	21 34.3	53 36	"	"	"	+4.5	6 01	6 37	2	55W
9640	HD 207636	21 45.3	69 41	"	"	"	4.6	6 41	7 05	3	19W
9641	HD 214710	22 35.0	74 51	"	"	"	4.7	7 09	7 45	4	.3W
9642	HD 219485	23 11.0	73 41	"	"	"		7 50	8 00	1	42W
9643	HD 215907	22 43.5	57 57	"	"	"	4.6	8 07	8 27	2	37W
9644	2904	00 27.3	70 26	"	"	"	4.5	8 51	9 21	3	.5W
9645	4440	00 41.6	72 08	"	"	"	4.7	9 25	9 45	4	5.W
9646	5357	00 50.4	68 15	"	"	"	4.8	9 49	10 09	1	.0W
9647	7732	01 13.0	77 02	"	"	"	4.6	10 14	10 40	2	.6W
9648	12005	01 52.8	77 26	"	"	"	4.5	10 45	11 19		15W
9649	16458	02 33.4	81 01	"	"	005	4.5	11 25	00 15		30W
	Focus best.		outside three hours								

Focus 23.70

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
2 44W	52 20	2	6.93 KO	1½ 1½ 1½	Strong
55W	53 46	1-2	698 G5	1½ 1½ 1½	too "
1 43W	69 53	2-1	642 A0	2 - 2	get strong good
63W	75 04	1	724 K5	1½ 1½ 1½	? strong
42W	73 55	2	5.74 A0	2 - 2	strong
1 37W	58 10	2	6.29 A0	2 - 2	get strong good
45W	70 39	1-2	6 36 A0	1½ 1½ 1½	" v. " too strong
54W	72 22	2	7 0u K0	2 - 2	much too strong
1 10W	68 27	1-2	6 6h F0	2 - 2	very much " "
1 19W	77 16	1-2	7 16 F0	1½ - 1½ 1½	much " "
1 15W	77 36	2	7 35 K0	1½ 1½ 1½	much " "
1 30W	81 14	2-1	6.92 K0	2½ - 2 - 2	too strong
				10 7	

I don't know how I came out all night & then I'm dead tired & sleepy.

Date Thursday 1943 November 25-26 N-H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9650	HD 200327	20 33.9	+44 29	1-23	B-2-20	Cat .008	+07.0	17 33	18 15	1	13 W
9651	205389	21 29.6	+45 25	"	"	"	+07.1	18 18	18 52	2	9 W
9652	207088	21 41.5	+35 21	"	"	"	+07.0	18 57	19 31	3	5 W
9653	214313	22 32.2	+35 26	"	"	"	+07.0	19 45	20 19	4	1 W
9654	7724	01 11.9	+31 14	"	"	"	+07.0	20 25	21 07	1	1 E
9655	14067	02 11.5	+23 19	"	"	"	+07.0	21 12	21 46	2	6 E
9656	17378	02 [illegible]	+26 40	"	"	"	+07.0	21 59	22 21	3	10 E
9657	19066	02 38.9	+10 12	"	"	"	+06.9	22 27	22 53	4	13 E
9658	18354	01 51.7	+28 13	"	"	"	+06.9	22 56	23 20	1	14 E
9659	20102	03 09.1	+19 35	"	"	"	+06.8	23 24	0 28	2	5 W
9660	25948	04 01.5	+54 34	"	"	"	+06.8	0 33	0 55	3	7 W
9661	36138	04 39.8	+40 09	"	"	"	+06.9	0 59	1 27	4	7 W
9662	42[illegible]	06 03.5	+32 13	"	"	"	+06.8	1 31	2 21	1	8 W
	Same Set - extnd. Hr. Ang.										
9663	42471	06 10.7	+32 43	"	"	"	+06.8	02 38	3 22	2	8 W
9664	54361	07 05.3	+37 42	"	"	"	+06.7	03 27	3 44	3	8 W

Gatun 2 Cm 2 (Standing +4.5")

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS	
1 13 W	+44 33	2-1	7.73 Mb	1½ 1½ 1½		ok
1 19 W	+45 37	2	7.62 K2	1½ 1½ 1½		ok
1 45 W	+35 37	2	7.60 Ko	1½ 1½ 1½		low strong
1 42 W	+35 22	2-3	7.62 K5	1½ 1½ 1½	(set on wrong star & had to find) Mirror in 21+200 7.20 KO	at 2
0 09 E	+31 26	2	7.86 Ko	1½ 1½ 1½	using wrong star	low strong
0 30 E	+29 32	1-2	7.28 G5	1½ 1½ 1½		strong
0 26 E	+56 52	1-2	6.95 Fsp	1½ 1½ 1½	[illegible]	little "
0 10 E	+40 22	1-2	7.1E Ko	1½ 1½ 1½		strong
0 24 W	+38 33	1-2	7.08 Ko	1½ 1½ 1½		ok
0 15 W	+42 07	1	7.77 Mo	1½ 1½ 1½	Partly cloud over in west 23"	ok
0 5 W	+54 40	1	6.70 F5	1½ 1½ 1½	A few light cirrus clouds in sky.	low strong
0 43 W	+40 11	1	6.90 G5	1½ 1½ 1½		low "
1 14 W	+22 11	1	7.11 K2	1½ 1½ 1½	Light cloud [illegible]	little weak
				9"-7"	Cloud thinning out	
1 49 W	+22 43	2	7.03 K2	1½ 1½ 1½	Clouding again [illegible]	OK
36 W	+26 57	2	5.66 K2	1½ 1½	Light clouds	strong

(cont'd)

Date Thursday November 25-26, 1943 No. 14 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
9665	HD 61314	07 33.5	+38 34	I-25	E-103a-O	009	+6.8	3.48	4.08	4

Saturday 1943 Nov. 27-28 N-H
Broken at sunset. Snowflurries and high winds.
Could not keep at focus
Cloudy light snow at midnight clear by 1h.
Sunday Nov 28-Dec 1 1943 H- Cloudy all night
Wed. Opened up 10[30] D.S.T mirror clear at start
but frosted over - put heat on
Thursday Dec 2-3 H- Clear all night

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
.15	0 31 W	+38 28	2-1	7.07	K5	1½ 1½	Filling in rapidly 4^m very weak in patchy cloudy. A new band crossed half; sky never 50% clear from 1^m on. Most + most sky covered Hind. + Hinds light coming over south again. First on record.

		MC	SC	$\overline{MT_s}$	ST_m
Nov. 29	12	+01.1	-04.8	-06.7	+0.1

Friday, Clouded before I could start
half clear for a time around 11 D.ST. cloudy again 11^30-
still cloudy 12^45 Sid time 4^15 cleared, Sid time

Date Friday Dec 3-4 Y Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
~~9466~~	HD 28322	4 28.9	01 38	I-25"	E103a-O	.008	+2.2	12 05"		1
	Saturday Dec. 4-5 N-H									
	Cloudy all day. Cleared suddenly after sunset. Clouded and cleared alternately all first half.									
	Nancy Soule [illegible] 0h = 24h.									
	Saturday Dec 4-5, 1943 N-H.									
~~9466~~	HD 47 358	06 10.7	+01 12	I-25"	E-103a-O	.005	+3.1	~~02 14~~		
9466	61 325	17 32.2	+24 36	"	"	"	+2.9	03 05	3 35"	2
9467	64 2326	17 51.2	+22 44	"	"	"	+2.0	3 38	4 25	3
9468	75959	18 48.1	+12 57	"	"	"	+3.2	4 32	4 52	4
	Dense Sky									
9469	78284	19 12.0	+32 57	"	"	"	+3.0	5 03	5 23	1

Focus 23.74

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
		+1 43		7.12 KO		no good, clouded again.
						From set 23.72
				6.71 F5		Clouded over awfully just as soon as I set
	0 21 W	+24 27	1	6.60 F0	1/2 1/2 1/2	Hazy with stars N of ♈.
	19 W	+10 35	1	7.32 K0	1/2 1/2 1/2	Clouds over ♈ stars, star and will not
						Time
	39 W	-30 46	1-0	6.60 K0	1/2 1/2 1/2	5[h] 27
					7.53	" 8 — OK
	51 W	+32 45	1-2	6.71 F2	1/2 1/2 1/2	
	Wind increasing - clouds start to [illegible]					[illegible] 5[h]50
						a poor night!

Date ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9670										
Thu 1943	Dec. 9-10	N-H.								
	Cloudy at sunset. Thinning about 21:30, with halo around moon.									
	Clouding again shortly after. Remained cloudy all night.									
Sat 1943	Dec. 11-12 (sun ord.)	N-H								
	Clear until afternoon; cloudy all evening & rest of night.									
Sunday	Dec 12-13	Y-	partly clear 10-10^{30}							
	cloudy at 12.		cleared around 3 A.M							

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					MC SC SW MT ST
					Dec. 6 +05·5 −07·4 −1 49·9 −17ˢ·3 −0ᵐ·0

Date Dec 13-14 Monday Y **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9670	HD 12479	1 57.2	13 00	1.75	Eastman O	.008	-10.0	8 18	9 08.2	3 W
9671	16467	2 33.4	3 01	"	"	"	-10.0	9 16	10 00.3	3 W
9672	23576	3 40.8	6 30	"	"	"	-10.0	10 05	10 35.4	2 W
9673	29014	4 22.8	19 41	"	"	"	-10.0	10 42	11 12.1	1 E
9674	32655	4 59.7	43 02	"	"	"	-10.1	11 18	11 42.2	1 E
	Focus test		outside the Box							
	Dec 14-15 -		Clear - no one on duty							
	Dec 15-16 -		Rosy thickened 12				cleared			
			some time later Y.							

Focus 2390

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
18 W	13 13	1-0	7.63 Mb.	1½ 1½ 1½	good
33 W	3 09	1-0	7.15 G5	1½ 1½ 1½	Large- little Fuzzy
2m W	6 36	1-0	7.12 K0	1½ 1½ 1½	Stars
11m E	19 46	1	7.06 F8	1½ 1½ 1½	large. Stars
17 E	43 05	1-0	6.55 F2	1½ 1½ 1½	two Stars
				7-5"	
					Focus fine

Date Friday Dec 1-18 Y Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle Est
9675	HD 23626	3 41.5	3 50	1-25	F103a-O	008	-3.1	9 48	10 12 3	9E
9676	HD 23687	3 41.5	-0 4	"	"	"	-3.0	10 17	10 47 4	26W
9677	HD 23342	4 22.9	1 38	"	"	"	-3.0	10 51	11 27 1	28W
9678	34053	5 09.5	22 10	"	"	"	-3.1	11 32	11 46 2	
9679	35527	5 41.4	09 29	"	"	"	-3.1	11 51	12 09 3	10E
~~9680~~	34632	5 48.7	10 34	"	"	"	-3.0	12 13	4	
	Focus last									

Focus 23.80

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
8 E	32 01	1	6.79 G0	1½ 1½ 1½	Too Stormy
26 W	+00 03	1	7.10 K0	1½ 1½ 1½	cant see Double W circles check. Fine
28 W	+01 45	1	7.12 K0	1½ 1½ 1½	Star Tracks Fine
00	22 13	1-2	6.16 A0	2 - 2	Stormy
29 E	9 30	1-2	6.67 G5	2 - 2	good
	10 34	1	7.50 K0	1½	clouded clouded 1 15

Heat on

Focus OK

Date Monday December 21-31 1942 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9680	HD 38529	05 41.4	+01 09	I-25	E-103a-O	2nd .008	-3.0	23 15	23 41	1
9681	39951	05 44.9	+04 24	"	"	"	-2.9	23 46	0 08	2

Clouded over at sunset. Cleared thru. at my bed time
in evening. Clearing with very strong wind, W & NW.

202

Focus not changed (23°C)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
3..	0 35 E	+61 18	1	6.92	G5	1½ 1½ 1½	Very windy. 2nd
4..	0 21 E	+64 22	1-2	7.12	K0	1½ 1½ 1½	Staying up very nicely, 23° — steady 2 v weaks
							Left at 5:00
							Head up 1:00 EST. Impossible
							to stay out.

Date [illegible] Julian Day [illegible]

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
	MD 8737	11 20 - 11 25								
	Thursday Dec 25									
	No one on Friday. Clear weather all day									
	Christmas eve. Cloudy from 10 to 30 on									
	Heat Put on									

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
				6 45 7 2	

Date October November 25-26 1913 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
						Slit				
9693	HD 6828	00 56.5	+50 30	I-25	I-103+0	009	-13	19 52	20 14 3	
9694	116 3	01 48.9	+41 12	"	"	"	-13	20 18	21 04 4	
9695	18 700	02 05.2	+10 29	"	"	"	-12	21 09	21 47 1	
9696	22211	03 29.5	+24 18	"	"	"	-13	21 47	22 17 2	
9697	34 [illegible]	03 46.4	+51 41	"	"	"	-13	22 24	22 52 3	
9698	35377	04 40.0	+53 40	"	"	"	-12	22 35	23 15 4	
9699	34733	05 12.1	+32 42	"	"	"	-14	23 17	23 41 1	
9700	35561	05 [illegible]	+33 11	"	"	"	-14	23 42	0 15 2	
9701	43355	06 11.7	+61 13	"	"	"	-16	0 19	1 13 3	
9702	45549	06 28.1	+79 40	"	"	"	-17	0 51	1 13 4	
9703	51 [illegible]	06 57.7	+43 45	"	"	"	-17	1 18	1 52 1	
9704	56111	07 25.4	+63 30	"	"	"	-19	1 40	1 56 2	
9705	62407	07 39.7	+12 17	"	"	"	-18	1 58	2 34 3	
9706	62500	07 55.4	+25 19	"	"	"	-19	2 26	2 43 4	
	[illegible]		[illegible]							

Heavy haze all around horizon.
Trans out 23.78

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 12 W	+50 44	1	6.70 A3	1½ 1½ 1½	Fine
1 23 W	+40 25	1-0	7.57 K2	1½ 1½ 1½	Fine
0 44 W	+12 39	1	7.38 K5	1½ 1½ 1½	Fine
0 43 W	+06 14	1	7.09 F5	1½ 1½ 1½	Poor lines. Variability ± 0.2 mag by comparison. little strong
0 21 W	+57 48	1	5.79 A0	2-2	" "
0 12 W	+18 44	1	7.46 K0	1½ 1½ 1½	" "
0 12 W	+06 54	1	(6.76) F5	1½ 1½ 1½	Bright, N corner of field dark " "
0 49 W	-03 12	1	7.30 K0	1½ 1½ 1½	little "
1 28 W	+21 10	1-0	6.74 F5	1½ 1½ 1½	" "
1 41 W	+78 29	1-0	6.52 B8	1½ 1½ 1½	
1 44 W	-13 42	1	7.12 K0	1½ 1½	ck
2 24 W	+03 34	1	7.14 F5	2-2	Poor lines.
2 51 W	-13 21	1-2	7.50 K0	1½ 1½ 1½	
3 43 W	+35 11	1-2	5.44 A0	2-2	Cloudy 2
					8 Put dust on mirror.
					Trans good

Date Tuesday December 28-29, 1943 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
						cut				
9696	HD 15552	02 21 3	+26 33	I-25	E-103a-O	008	-7.4	20 21	21 05 1	
9697	15526	02 [illegible]	+08 05	"	"	"	-7.5	21 09	21 49 2	
9698	[illegible]	[illegible]	[illegible]				-7.7	21 52	22 22 3	
9699	[illegible]	[illegible]	[illegible]				-7.8	22 26	[illegible]	
9700	[illegible]	[illegible]	[illegible]				-7.8	[illegible]	23 42	
9701	[illegible]	[illegible]	[illegible]	"	"	"	-7.9	23 45	[illegible]	
9702	[illegible]	[illegible]	[illegible]				-7.8	[illegible]	[illegible] 3	
9703	51100	06 [illegible]	-31 50				-7.8	[illegible]	[illegible] 4	
9704	55194	07 [illegible]	[illegible]				-7.8	[illegible]	[illegible]	
9705	[illegible]	[illegible]	[illegible]				-7.7	[illegible]	[illegible] 2	
9706	72159	08 [illegible]	[illegible]				-7.7	[illegible]	[illegible] 3	
9707	73193	09 [illegible]	[illegible]			"	-7.7	2 37	2 51 4	
	[illegible]									

Monday [illegible] 30-31, 1943 H. cloudy all night.

Saturday, Jan. 1-2 1944 H. cloudy all night

Clear + cold (20°F) with gusty W wind (gusts to)

Frost at 23.86 Inf. 18°F. down

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	0 51 W	-2 46	0	7.36 K5	2½ 2	Confusing seeing, wind almost light.
	0 52 W	+13 14	2	7.22 G5	2½ 2	
	0 28 W	+13 34	0	6.51 A2	1½ 1½ 1½	Dot STRIKE. Long exposure at 1½.
	42 W	+22 15	0	7.20 K0	1½ 1½	
	37 W	+23 54	0	6.31 A5	1½ 1½ 1½	Focus 2.363
	30 W	+14 20	0	5.73 A2	2-2	Dot at Prime
	0 17 W	+11 09	2	7.24 G5	1½ 1½ 1½	
	0 3 W	+32 45	0	6.57 G2	1½ 1½ 1½	
	0 5 W	+25 35	0	7.12 B5	1½ 1½	
	0 12 W	+23 21	0	6.02 F0	1½ 1½ 1½	
	0 11 W	+11 17	2-1	6.21 A0	2-2	Dot Type 2
	0 27 W	+19 51	0	6.95 A0	2-2	Dot Type 2
					1-1	Dot Type 1

209

Date Sunday January 2-3, 1944 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9708	HD 29104	04 29.8	+19 41	I-25	I-103a-O	.008	-1°	22 30	22 52	1
9709	34904	05 15.7	+20 56	"	"	"	-1°	22 57	23 09	2
9710	35519	05 [illegible]	+21 [illegible]	"	"	"	-1°	23 12	23 48	3
9711	41429	06 [illegible]	+19 31	"	"	"	-1°	23 51	1 [illegible]	4
	[illegible]	[illegible]	[illegible]					[illegible]	[illegible]	

Cloudy all day. Clearing but hazy around 19h. Some haze all around horizon. Only one good record of standard.

Watch fast/slow Eastern S.T. M. T 00

210

Forecast 2379

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
0 50 W	+19 45	1	796 F3	1½ 1½ E	Hazy.
0 2 W	+00 39	1-0	F65 A3	2 — 2	GET STARS Hazy Wind N.E.
0 55 W	+37 20	1	737 K2	1½ 1½ 1½	Hazy.
1 15 W	+21 31	1	767 Mc	1½ 1½ 1½	Hazy Sunset pretty from E —
			749 K2		
					Light Hazy.
					Not out [illegible]

Date [illegible] Julian Day [illegible]

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Remarks
9712	HD 10110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.5°	7 10	[illegible]	
9713	15138	2 372	50 39	"	"	"	-1.7	8 18	[illegible]	
9714	17878	2 422	56 40	"	"	"	-1.7	8 40	9 04 3	
9715	21794	3 157	57 32	"	"	"	-1.6	9 08	9 30 4	
9716	24164	3 458	71 31	"	"	"	-1.7	9 37	9 55 1	
9717	26076	4 026	71 52	"	"	"	-1.7	10 00	10 10	

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
[illegible] W	[illegible]	1	.71	K2	1½-1½ 1½	Fond
45 W	[illegible]	1	655	F0	2 - 2	Thin St [illegible]
51 W	56 49	1	695	F5b	1½ 1½ 1½	" "
33 W	57 40	1-0	683	F5	1½ 1½ 1½	" "
37 W	71 40	1	667	F0	2 - 2	" "
35 W	71 59	1	693	G5	2 - 2	clouds Ok

Date Tuesday January 4-5, 1944 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
						S-F				
7718	HD 15414	02 24.3	+33 23	I-25	E-103a-O	008	+0.2	19 49	20 23 3	
7719	19339	02 51.7	+38 13	"	"	"	+0.2	20 25	20 53 4	
7720	20104	03 08.3	+65 17	"	"	"	-0.2	20 58	21 18 1	
7721	25274	03 55.9	+28 34	"	"	"	+0.2	21 22	21 47 2	
7722	26101	04 02.8	+68 16	"	"	"	+0.1	21 53	22 23 3	
7723	34053	05 17.5	+32 10	-			0.0	23 26	23 52 4	
	Orion Neb.		Check star here.							
		Wed.	Jan. 5	4:30 PM	E.W.T.		Put heat on, mercury N.			

Focus set 23.75

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	2 33 W	+33 34	1-0	7.25 K0	1½ 1½ 1½	
	2 35 W	+37 22	1	7.08 K0	1½ 1½ 1½	
	0 -2 W	+05 37	1	6.41 A2	1½ 1½ 1½	[illegible]
	0 24 W	+13 21	1-2	7.21 K2	1½ 1½ 1½	[illegible]
	2 23 W	+13 21	1-2	7.41 K0	1½ 1½ 1½	[illegible]
						[illegible]
	5 11 W	+22 12	1-2	6.16 A2	2 - 2	[illegible]
					5³ 7³	
						Heat NOT on mirror

Date Thursday 1944 January 6-7 N **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
9724	HD 7925	01 13.8	+75 43	1-25	E103a0	5t .008	-00.7	18 52	19 14	1
9725	B424	01 18.4	+70 27	"	"	"	-00.7	19 18	19 44	2
9726	14537	02 12.9	+58 29	"	"	"	-00.7	19 50	20 10	3
9727	15435	02 34.2	+39 07	"	"	"	-00.7	20 16	20 46	4
	21010	03 18.4	+04 31	"	"	"				

Friday clear to sunset then clouded

Saturday clear until sunset, then alternately clearing & clouding with some snow N

Sunday Jan 9-10 cloudy early evening, partly clear, 11:00 PM clearing again.

Cloudy Jan 7-8 Clear 11 PM [illegible]

Cloudy during day, gradually clearing at sunset

Focus at 23.77 ±

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
0 42 W	+75 58	0-1	6.53 A3	1½ 1½ 1½	Low magnification to start at first.
1 07 W	+70 42	0-1	6.52 A0	1½ 1½ 1½	get hazy. Clouds 19[illegible] 9 - 19 33 (low)
0 33 W	+49 42	1	6.68 F0	1½ 1½ 1½	
1 03 W	+09 12	1	7.30 K0	1½ 1½ 1½	Clouds cleared up.
			7.03 G0		Check on
					At last on meter.

	MC	SC	MT s	ST m
Jan. 10	+39.3	-20.2	+00.4	+0 3
			reset	

Date Jan 10-11 / 44 Monday Y **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
9728	H9 8949	01 23.1	7 27	I-25"	E103a-O	008			
			Closed 10 PM						
Jan 12-13	Thursday -	Clouds filling in gradually - soled							
	Friday								
	Opened up at 10 30	but clouded almost immediately							

F 23.82

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
				7.44 K0		Hazed over before I got started

Date Saturday 1944 Jan. 15-16 N Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
9728	HD 19121	02 59.5	+01 30	1-25	E-103a-O	.2mm 0.008	0.0	19 54	20 18	1
	21018	03 18.4	+04 31	"	"	"				

Cloudy all day. Gradually clearing after sunset. (wind from east).

Focus set + 23.76

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
0 36 W	+01 40	1-2	7.05 Ko 7.03 Go	1½ 1½ 1½	Iris diaphragm broadly to open last 15 inches, image unsteady dome turning gave trouble. Heat up rapidly while setting and focusing with dome turning.
					Cannot be further tempted by the night. Put heat on mirror.

221

Date Sunday, January 16-17, 1944 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
9723	HD 14377	02 14.2	+23 45	I-25	E-103a-J	.008	-4.0	19 18	20 12	2
9732	21018	03 18.4	+04 31	"	"	"	-4.2	20 16	20 46	3
9731	23526	03 41.8	+06 30	"	"	"	-4.2	20 47	21 23	4
9733	31411	04 50.6	+05 15	"	"	"	-4.2	21 36	21 52	1
9732	33140	04 52.8	+03 28	"	"	"	-4.2	21 55	22 25	2
9734	39775	05 49.6	+00 57	"	"	"	-4.3	23 03	23 00	3
9735	45128	06 33.5	+11 05	"	"	"	-4.3	23 01	23 36	4
9736	46178	06 31.8	+11 45	"	"	"	-4.3	23 37	23 57	1
9737	52312	06 57.9	+09 19	"	"	"	-4.4	0 03	0 15	2
9738	54131	07 03	+18 10	"	"	"	-4.4	0 27	0 43	3
9739	72545	09 28.2	+11 36	"	"	"	-4.5	1 27	1 59	4
9740	74673	09 47.5	+12 18	"	"	"	-4.5	1 52	2 12	1
9741	84252	10 38.1	+19 23	"	"	"	-4.6	2 35	2 59	2
	Same Field									

Varnish NE wind.
Frost out 23.82

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	1 17 W	+21 56	0	7.60	K0 1½ 1½ 1½	1 - Mint - gradual light
	0 49 W	+04 29	0	7.02	G0 1½ 1½ 1½	
	1 03 W	+36 36	0	7.12	K0 1½ 1½ 1½	
	0 24 W	+15 17	0-1	6.57	A0 1½ 1½ 1½	
	0 51 W	+03 30	0-1	6.62	A0 1½ 1½ 1½	GET STARS Sharp *
	0 32 W	+50 [illegible]	0-1	7.23	K0 1½ 1½ 1½	
	0 27 W	[illegible]	[illegible]	6.71	F0 1½ 1½ 1½	
	0 [illegible] W	[illegible]	1	7.15	K0 1½ 1½ 1½	
	0 39 W	[illegible]	1	5.99	A2 2 - 2	Not [illegible]
	1 35 W	[illegible]	1	7.32	[illegible]	(Slid out down?) - [illegible]
	0 52 W	[illegible]	1-2	7.00	F0 1½ 1½ 1½	
		+12 [illegible]	1-2	5.71	A0 2 - 2	
	0 43 W	+19 26	1-2	7.64	K0 1½ 1½ 1½	
					7/5⁻³	1.5
						Test in min.

223

Date ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
9742	HD [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-3.2	[illegible]	[illegible]	[illegible]
9743	12872	02 01.0	7 46	"	"	"	-3.1	6 50	7 30	4
9744	[illegible]	[illegible]	4 57	"	"	"	-3.1	7 36	7 58	1
9745	[illegible]	[illegible]	1 30	"	"	"	-3.0	8 02	8 22	2
9746	24154	03 45.7	21 44	"	"	"	-2.9	8 26	9 00	3
9747	28191	04 31.8	1 52	"	"	"	-2.9	9 05	9 27	4
9748	32039	04 55.3	3 28	"	"	"	-3.0	9 34	10 00	1
9749	[illegible]	[illegible]	[illegible]	"	"	"	-3.1	10 05	10 29	2
9750	39045	05 44.9	32 06	"	"	"	-3.2	10 34	11 10	3
9751	42351	06 05.1	18 09	"	"	"	-3.0	11 15	11 39	4
9752	[illegible]	06 56.8	16 49	"	"	"	-3.2	11 43	00 03	1
9753	[illegible]	[illegible]	[illegible]	"	"	"	-3.3	[illegible]	00 33	2

Focus lost outside the hour

Morning: sky whited, and brighter stars visible above fog

Thursday: 1 gal in the sky. N

Focus not changed

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comb	REMARKS
47 W	+7 39	3-2	7.00	KO	1½ 1½ 1½	
65 W	7 58	3-2	8.01	Mb	1½ 1½ 1½	
24 W	5 05	2	7.38	[illegible]	1½ 1½ 1½	
47 W	1 36	1-2	7.05	KO	1½ 1½ 1½	note dec. & RA clocks
40 W	21 51	1-2	7.60	G5	1½ 1½ 1½	
31 W	1 56	2	7.37	KO	1½ 1½ 1½	
30 W	3 31	2	6.95	Ao	2 - 2	
56 W	30 28	2	7.30	KO	1½ 1½ 1½	
50 W	32 05	2	7.76	Ma	1½ 1½ 1½	
59 W	18 07	2	7.44	KO	1½ 1½ 1½	
32 W	16 45	2	7.19	K5	1½ 1½ 1½	
23 W	23 10	2	7.36	K5	1½ 1½ 1½	
					2 - 5	

Wednesday ... last part ... mirror ... Al ... good ... [illegible]

Saturday 1944 Jan 22-23 Sleep all day N Mostly fair in evening but

225

Date Sunday Jan 23-24 1944 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9754	HD 28505	04 24.6	+10 01	I-25	E 103a-D	.008	+0.1	20 55	21 29	
9755	34813	05 15.2	+19 43	"	"	"	+0.1	21 31	22 11	
9756	40372	05 52.4	+31 49	"	"	"	-0.1	22 15	22 31	
9757	42111	06 08.8	+02 31	"	"	"	-0.1	22 33	1 47	
9758	45512	06 32.8	+13 23	"	"	"	-0.2	22 50	3 20	
9759	50331	06 47.8	+11 07	"	"	"	-0.2	23 33	3 49	
9760	57744	07 17.5	+23 09	"	"	"	-0.3	23 51	4 7	
9761	63989	07 46.1	+13 35	"	"	"	-0.3	0 29	0 37	
9762	70213	08 14.6	+04 15	"	"	"	-0.3	0 41	1 3	
	~~74594~~	~~08 33.7~~	~~+26 03~~	"	"	"				
	~~Test~~									

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	Cloudy at sunset. Partly clearing; started to open up at 19h, but closed again for the clouds + strong N wind 19h – 20h30 Forecast 23:76					
18	0 54 W	+12 08	1-0	7 32	G5 1½ 1½ 1½	N – NW wind.
	0 42 W	+11 45	1-0	7.44	K0 1½ 1½ 1½	
	0 28 W	+11 30	2	6 20	A5 2 – 2	Not too steady
	0 12 W	+11 31	2-1	5.58	A0 2 – 2	Gusty strong E wind & cold
	0 47 W	+10 19	1	7.19	K0 1½ 1½ 1½	
	0 51 W	+11 14	1	7.08	G5 1½ 1½ 1½	
	0 32 W	+12 04	1	6.02	A0 2 – 2	Very strong
	0 [illegible]	[illegible]	1	7.13	K0 1½ 1½	[illegible]
	0 52 W	+11 [illegible]	1	7.07	G5 1½ 1½ 1½	Sky falling in fast 1st —
				6.26	A2	Not too steady — H 15°

Test exposures.

	MC	SC	MTW 5	STW m1
Jan. 24	+56·6	−19.6	+13·6	+0·∞ reset

Date Monday Jan 30-33 Y Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H
9763	HD 40722	05 55.6	43 22	I-25	Process O	0.8	-1.0	10 24	10 54	1
9764	47979	06 36.1	53 24	"	"	"	-1.0	10 58	11 28	2
9765	65299	07 53.0	84 21	"	"	"		11 40	1	3
9766	67934	08 05.2	82 44			III	-1.0	12 04	12 20	1
9767	65448	07 53.7	63 21	"	"	"	-1.0	12 30	12 40	1
9768	73131	08 31.6	53 16	"	"	"	-1.2	12 45	1 25	2
	Focus Test									

clouds thick in early evening

focus unchanged

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
50 W	43 22	2	7.52	K0	1½ 1½ 1½	Strong
44 W	53 20	1-2	7.38	K0	1½ 1½ 1½	strong
13 E		1-2	6.39	A0	2 - 2	Strong
01 W	33 3½	1-2	6.17	A0	2 - 2	ok
38 W	63 14	1-2	6.54	F8	2 - 2	Strong
46 W	53 05	1-0	7.5-	K0	1½ 1½ 1½	Thicker Thick
					7 - 5	

focus good

Wed. Telescope stopping. Rotor was also noisy (clean out?)
Thurs. Motor up belt tight. Pt. broke this not
only time noise stopped. but klang, beginning to die
I noticed before morning
Fri. Clouds all night SI

Date Sat Jan 20-30 Y Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9769	HD 47358	06 32.1	22 07	I-2	E-10-D	0.8	+1.7	10 35	11 09	3
9770	53257	06 59.3	22 07	"	"	"	+1.5	11 13	11 37	4
9771	59212	07 21.9	23 07	"	"	"	+1.5	11 36	12 10	1
9772	45737	07 15.2	20 05	"	"	"	+1.3	12 15	12 [illegible]	[illegible]

Overcast — evening till 9:00. clearing sometime. first seen clear 11:00 D S T 230

Focus 23.75"

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS	
~~53~~ 50 W	22 03	0	728 KO	½ ½ ½		good
46 W	22 +1	0	591 AO	2 - 2		OK
57 W	23 00	0	722 B5	½ ½ ½	Pict [illegible]	good
1 0 W	19 56	0	726 A0	½ ½ ½		good

Date ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS

Date Sunday Sunday 1-2 1944 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9780	H.D. 14067	02 11.5	+33 19	I-3.5	2-127	0.04	-6.9	18 [illegible]	18 31	1 [illegible]
9781	17228	02 [illegible]	+35 35	"	"	"	-6.9	18 34	19 05	2 [illegible]
		Thur.	Feb.	3.5	1944	Cloudy with light snow N				
		Sat.	Feb.	5-6		Cloudy, windy, some [illegible]				

Focus set 23.86

Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	2 44 M	+23 29	1-2	7.28	G5	1½ 1½ 1½	
	2 52 M	+23 05	2	7 16	G5	1½ 1½ 1½	Clouds 8ths ; strand of cirro-stratus with thick, knotty middle, short tail + stiff wisps.

		MC$_s$	SC	MTW$_s$	STW
Feb. 2	12	+67.0	−19^s.4	+25.6	+0^m.4

Date Sunday February 6-7, 1944 - 37 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
9782	H.D. 23626	03 41.5	+31 54	I-25	E-103a-O	1.0 mm 008	-3.3	19 1-	19 36	1
9783	24302	03 51.5	+24 12	"	"	"	-3.5	19 39	20 39	2
	30135	14 37.8	+40 39	"	"	"				

Clear most of day; cloudy at dark. Closing in at 11
Variable wind, light NW.

Focus at 22.81

Hour Angle End	Declination	Seeing	Ptg. Mag.					REMARKS
0 38 W	+32 01	1	6.79	GO	1½	1½	1½	Light clouds.
1 31 W	+24 18	1	7.38	KO	1½	1½	1½	Heavy clouds 19h45m-19h57m; light clouds thereafter.
			6.84	Int				Thick.

		MC	SC	MT	ST
Feb. 7	12	+72·8	−19·3	−07ˢ·5	−0ᵐ·0

Date Monday Feb 3-8 Y. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9784	HD 19535	03 03 3	8 05	I-25"	I-25"	008	-4.9	18 28	19 28 1	53 W
9785	28736	04 36 7	5 11	"	"	"	-5.0	19 32	20 08 2	20 W
9786	31482	04 58 4	21 09	"	"	"	-5.0	20 12	21 00 3	-1
9787	39765	5 43 0	51 29	"	"	"	-5.0	21 06	21 46 4	51 W
9788	42466	6 05.8	51 12	"	"	"	-5.1	21 50	22 30 1	71 W
9789	57646	7 17 1	52.05	"	"	"				
	Focus test									

Two plates left in black box

clear fine night (humidity) but
no seeing

Focus 23.83

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
6 3 W	+8 15"	0-0	722	G5	1½ 1½ 1½	~~~ age 20" diam.
2 9 W	5 16	0	677	F2	1½ 1½ 1½	
1 9 W	21 11	0	734	K0	1½ 1½ 1½	mags 10" f.l.
5 1 W	51 30	0	718	G5	1½ 1½ 1½	
7 1 W	51 09	0	728	K0	1½ 1½ 1½	clouds.
			~~698~~	~~K2~~		

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Date ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS

Date Wed. Feb 9-10 Y. **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H.	Hour Angle End
9703	HD 32263	04 56.7	00 34	I-25	Eastman O	008	-04.5°	20 01	20 25	1	E of N
9704	35395	05 18.6	34 45	"	"	"	- 4.8	20 29	21 05	2	E of N
9705	43358	06 10.7	01 12	"	"	"	- 4.7	21 13	21 35	3	10 W
9706											
	Thu. Feb 10-11 1944 -										
	Shading up in afternoon. Completely cloudy evening.										
	Sat Feb. 12-13 1944 -										
	Snow flurries for night and Sat forenoon.										
	Snow flurries showing during evening. Fine snow from N.										
	Sunday, Feb 13-14, 1944 H- cloudy all night; occasionally flurries of snow during afternoon.										
	Sunday, February 15-H, 1944 - H Cloudy + mist at sunset. Partly H										
	fair Sun, all morning, Just before sunset, & afternoon										
	Day of night 1:30 + Clear + sun set.										

From 3384

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
25 W	00 39	1	718	KO	1½ 1½ 1½
43 W	34 48	1	748	KO	1½ 1½ 1½ clouds
10 W	01 12	1	6.76	F5	2 – 2 clouds.

	MC	SC	MTW	STW
Feb. 14	+81.6	−19.0	−02ᵐ2	+0ᵐ0

Thu. Feb 17-18. Cloudy at evening – snow –

Date Friday 1944 February 18-19 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
9396	HD 23587	03 43.5	-00 04	1-25	E-103a-O	Cat 0.8	-07.6	18 35	19 17	1
9397	31 Aur	04 56	+05 15	"	"	"	-07.6	19 27	19 46	2
9398	32 Aur	05 11.6	+40 21	"	"	"	-07.6	20 00	20 54	3
9399	45 Tau	06 22.6	+20 34	"	"	"	-07.7	21 05	21 21	4
9400	46 Tau	06 29.8	+10 04	"	"	"	-07.7	21 25	22 05	1
9401	48 Aur	07 05.2	+27 02	"	"	"	-07.8	22 11	22 19	2

Gamma Ori 23·37 ±

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 05W	+06 03	0	7.10 Ko 1½ 1½ 1½	Poor seeing
0 17W	-02 17	0	6.59 Ao 1½ 1½ 1½	
1 13W	+20 26	0	7.32 Ko 1½ 1½ 1½	
0 30W	+11 38	0	6.11 Ao 1½ 1½ 1½	Trouble with time signal
1 07W	+10 00	0	7.24 K2 1½ 1½ 1½	
0 44W	+26 56	0	5.22 A2 1½ 1½ 1½	Temp +04° F

- long enough at that temperature

Beware of ice on floor !!!

Date Sat. Feb. 10 '00 Y Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H
9802	HD 28602	3 38.8	53 45	1-23	Eastman O	0.08	-7.5°	18 43	19 23	3
9803	30144	4 39.9	55 26	"	"	"	-7.2	19 26	19 46	4
9804	34653	5 14.0	77 56	"	"	"	-7.1	19 51	20 11	1
9805	35618	5 42.0	56 53	"	"	"	-7.1	20 16	20 36	2
9806	40083	5 51.6	54 33	"	"	"	-7.2	20 40	21 10	3
9807	46101	6 26.3	55 26	"	"	"	-7.3	21 13	21 53	4
9808	57646	7 17.1	52 05	"	"	"	-7.3	21 56	22 16	1
9809	60654	7 30.5	40 14	"	"	"	-7.2	22 21	22 41	2
9810	69149	8 10.6	54 26	"	"	"	-7.3	23 16	23 56	3
	Focus Test		Outside Run Trace.							
			Heat on Mirror							

Focus unchanged.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
59 W	53 52	1	742 K0	1½ 1½ 1½	
40 W	55 30	1	662 F0	2 - 2	[illegible]
28 W	77 54	1	668 A5	2 - 2	
28 W	56 54	1	644 A2	2 - 2	poor focus
52 W	54 33	1	726 K0	1½ 1½ 1½	
61 W	55 24	1	753 K0	1½ 1½ 1½	
33 W	51 59	1-2	698 K2	1½ 1½ 1½	
76 W	40 10	1-2	792 Ma	1½ 1½ 1½	
h 20 W	54 18	1-2	758 K5	1½ 1½ 1½	
				7 - 5	

	MC	SC	MTW	STW
Feb. 21	+1m 26.8s	-18.1	+04.0s	+0.0m

Date Monday Feb 21-22 Y. **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End
9811	HD 24141	03 45.6	57 40	1-25	E103a-O	008	+0.1	18 33	18 43	1	+0.W
~~9812~~	25949	04 01.5	54 34	"	"	"	+0.5	18 48		2	

Focus 23.75

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
40W	57 49	1	5.79	A0	2 - 2	
			6.70	F5	1½ · 1½ 1½	Thick - just after start
						Done Turning never failed

Date January 1914 February 24-25 N Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9812	HD 30138	04 39.8	+10 08	1-35	E-103a	.01F .008	+03.2	18 47	19 15 3	
9813	32655	04 59.7	+43 02	"	"	"	+03.3	19 19	19 41 4	
9814	36010	05 13.8	+41 22	"	"	"	+03.3	19 45	20 15 1	
9815	40486	05 54.0	+48 58	"	"	"	+03.2	20 24	20 56 2	
9816	50264	06 46.1	+18 38	"	"	"	+03.2	21 04	21 20 3	
9817	57263	07 15.4	+39 "	"	"	"	+03.3	21 27	22 15 4	
9818	63900	07 39.9	+05 07	"	"	"	+03.2	22 21	2 31 1	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	0 29W	+46 12	0-1	6.90	G5	1½ 1½ 1½	
	0 35W	+43 56	0	6.55	F2	1½ 1½ 1½	
	0 43W	+41 35	0+1	7.09	K0	1½ 1½ 1½	
	0 56W	+43 59		7.24	K0	1½ 1½ 1½	
	0 27W	+38 38	0-1	6.23	A0	1½ 1½ 1½	
	0 55W	+39 01	0	7.45	K0	1½ 1½ 1½	
	0 30W	+05 00	0		A0	1½ 1½ 1½	

Friday - mostly hazy, uncertain.

Saturday - rain N

Sunday - cloudy all night N

-1.28 +1.98 SC -17.6 SW +17.0 +7.14 ST +0.31

Date Tuesday February 29 - March 1, 1944 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Filt	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7819	HD 34499	05 12.8	+32 53	I-25	E-103a-O	cut 008	-4.5	19 18	19 52 2	
7820	39325	05 42.0	+33 53	"	"	"	-4.5	19 55	20 55 3	
7821	48803	06 40.2	+12 19	"	"		-4.7	21 00	21 28 4	
7822	61885	07 36.3	+13 04	"	"		-4.7	21 31	22 17 1	
7823	70771	08 18.7	+35 22	"	"		-4.6	22 20	22 54 2	
7824	74561	08 37.7	+26 03	"	"	"	-4.7	22 54	23 12 3	
7825	77250	08 52.3	+06 02	"	"	"	-4.7	23 15	23 53 4	
	Same set - start at 1 hour									

Cloudy all day with light snow flurries. Snowing about 4 pm
EST on. Partly cloudy at dark, and a strong NW wind. 252

Trans out 22.82

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	0 52 W	+33 56	0	6.66 A5	1½ 1½ 1½	Fuzzy line. HD 34578
	1 23 W	+33 50	0-1	7.72 Ma	1½ 1½ 1½	← ✗ bit down for corrections
	1 03 W	+2 47	0-1	6.71 F0	1½ 1½ 1½	
	0 56 W	+2 24	0-1-0	7.45 Ma	1½ 1½ 1½	Long blurring of trail end.
	0 52 W	+33 13	1	7.21 K0	1½ 1½ 1½	
	0 48 W	+33 52	1-2	6.16 A2	1½ 1½ 1½	K[illegible] strong
	1 12 W	+15 31	1-0	7.31 K0	1½ 1½ 1½	[illegible]
					5°-5°	
						Just not in visual focus for [illegible]
						the [illegible] 11°.5.
						Seeing 9823 shots total dropping badly.
						Did 21 [illegible] 4 left, and done OK

Date Wed March-2 Y. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	h	Hour Angle End
9826	HD 34499	5 12.8	33 53	I-25"	E1030 D	008	-7.3	18 49	19 19	1	25W
9827	39685	5 49.0	3 13	"	"	"	-7.3	19 24	20 10	2	30W
9828	45357	6 21.8	0 54	"	"	"	-7.2	20 14	20 40	3	37W
9829	51814	6 53.7	3 45	"	"	"	-7.3	20 46	21 12	4	37W
9830	56959	7 14.2	2 54	"	"	"	-7.5	21 17	21 37	1	42W
9831	63435	7 43.8	4 34	"	"	"	-7.4	21 41	22 11	2	47W
9832	73599	8 34.1	8 22	"	"	"	-7.5	22 16	23 06	3	50W
9833	76494	8 51.4	4 37	"	"	"	-7.5	23 11	23 51	4	120W
	Focus test										

Focus 23.87

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS Strong wind
25W	33 56	0	666 A5	1½ 1½ 1½	
40W	+3 14	0-1	755 K0	1½ 1½ 1½	
37W	+0 52	0	651 A0	1½ 1½ 1½	get strong
37W	+3 39	0-1	702 K0	1½ 1½ 1½	
42W	+2 48	1	684 G5	1½ 1½ 1½	
47W	+4 28	1-0	707 G0	1½ 1½ 1½	
50W	+8 13	0	749 K0	1½ 1½ 1½	← Dome Turning rattle
20W	+4 26	0	714 G5	1½ 1½ 1½	wind gone. Dome seeing worse.
				7-5°	
					2 [illegible] start
					Head not on [illegible] 10° F
					Finding - [illegible]
1744	Thu. Mar	2-3	Cloudy	N	
	Sat. Mar.	4-5	Clearing in early evening.		Snow on shutters, no
					did not affect [illegible]

Date Sunday, March 5-6, 1944 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
						Slit				
1834	HD 29606	04 34.7	+59 20	I-25	E-103a-O	008	-3.8	18 52	19 22 1	21.4
9835	38 645	05 43.2	+68 26	"	"	"	-3.8	19 25	20 13 2	1.04
9836	46 597	06 29.9	+71 53	"	"	"	-3.8	20 16	20 46 3	1.44
9837	50 855	06 52.0	+72 57	"	"	"	-3.6	20 48	21 16 4	0.59
9838	62 140	07 37.4	+63 04	"	"	"	-3.7	21 19	21 54 1	1.04
9839	67 224	08 01.9	+58 33	"	"	"	-3.8	21 57	22 29 2	1.24
9840	71 553	08 23.0	+49 39	"	"	"	-3.8	22 31	23 17 3	1.27
9841	81 625	09 18.1	+52 01	"	"	"	-3.8	23 20	23 58 4	1.41
	Same Cat - extend through here									

Light NE wind.

Focus 2391

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	1 21 W	+59 23	0	6.61 A3	1½ 1½ 1½	Not too strong. Seeing very bad.
	1 04 W	+65 28	2	7.40 K0	1½ 1½ 1½	
	0 49 W	+71 49	0	6.85 G5	1½ 1½ 1½	
	0 52 W	+70 52	0	6.83 K0	1½ 1½ 1½	
	0 49 W	+62 55	0	6.49 A5	1½ 1½ 1½	Some faint light clouds.
	1 02 W	+58 23	0	7.05 K0	1½ 1½ 1½	
	1 27 W	+69 29	0-1	7.44 K0	1½ 1½ 1½	Light clouds burning general.
	1 15 W	+57 48	1-1	6.93 G0	1½ 1½ 1½	Setting 2 Light clouds
					7-5	
						burning clouds; fast drift in mirror. 12° F

		MC	SC	MTW	STW
		m s	s	s	m
WBEN	Mar. 6	+1 48.4	−15.7	+30.0	+0.3

257

Date Tuesday March 7-8 1944 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
						Set				
9842	HD 45947	06 25.4	+73 46	I-25	E-103a-O	008	-0.7	20 15	20 41	1
9843	52030	06 54.6	+70 57	"	"	"	-0.7	20 43	21 49	2
9844	68 977	08 05.8	+56 46	"	"	"	-0.9	21 52	22 20	3
9845	73 131	08 31.6	+53 16	"	"	"	-0.9	22 24	23 10	4
9846	81 770	09 22.7	+56 11	"	"	"	-0.9	22 12	23 38	1
	From list		Field to be							
9847	893 9	10 18.2	+42 25	"	"	"	-0.7	23 46	0 32	2

Partly cloudy all day, with snow flurries.
Clouds and flurries at dark, the sky

Forecast 23.77 (no 6).

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	0 55 W	+73 46	0-1	6.56 F2	1½ 1½ 1½ SW wind.
	1 35 W	+70 49	0-1	7.61 K0	1½ 1½ 1½ Clouds 20[50]-20[57]; 21[35]-21[35]
	0 56 W	+63 37	1-0	6.20 K0	1½ 1½ 1½ Very windy — DOME TURNING
	1 21 W	+53 07	1	7.54 K0	1½ 1½ 1½
	0 53 W	+42 02	1	6.80 F2	1½ 1½ 1½ } all 1½ Clouds left for photom.
					7[3]-5[2] } ← done
	1 01 W	+31 34	1-0	7.15 K0	1½ 1½ 1½ Sky clear 21[58]
					High wind & scurrying clouds. Thick.
					Start on mirror

259

Date Wed Mar 8-9 Y Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9848	HD 39945	05 49 4	49 07	I-15	E103a-0	0.08	-4.7	19 08	19 55	5 S.W
9849	40394	534	49 57	"	"	"				4

Focus 23.82 ±

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
51 W	48 59	0	7.22 G5	½ 1 1½	Sky, Slide not taken.
			5.68 A0		

Date January 1914 Mt. Wilson 9-10 N Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9348	HD 52100	06 54 8	+32 32	1-25	E-103a O	.008	-05·4	20 02	20 30	1	
9349	53899	07 01·7	+33 58	-	-	-	-05·3	20 33	21 17	2	
9350	65066	07 51·8	+08 54	-	-	-	-05·4	21 22	21 48	3	

Clouds at west; overcast, clearing later. 262

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	0 25 W	+32 30	0-1	6.76	F0	1½ 1½ 1½	
	1 06 W	+33 54	1	7.47	K0	1½ 1½ 1½	very variable. clouds.
		+08 46	0-1-2	6.90	G5	1½ 1½ 1½	short interval of time - shut off by cover,
							turned down from overtaxing almost every time.

Date Friday Mar 10-11 | 44 Y Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End
9851	HD 39743	05 49.4	49 01	I-25	Eastman O	008	-4.1	19 02	19 38	4	2 W
9852	40394	05 53.4	47 54	"	"	"	-4.2	19 42	19 56	1	5 W
9853	40044	05 51.6	49 33	"	"	"	-4.3	20 00	20 30	2	3 W
9854	40626	05 55.0	49 55	"	"	"	-4.3	20 33	21 03	3	2 W

Focus 23.85

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
42 W	49 01	0-1	722	G5	1½ 1½ 1½	Fog
56 W	47 54	0-1	5.68	A0	2 - 2	Dome Bad
1 31 W	49 54	0-	685	G5	1½ 1½ 1½	Haze
2 01 W	49 53	0	598	A0	1½ 1½ 1½	Haze bad
						Haze getting too thick. Star nearly gone.

Date Sunday 1944 March 11-12 N Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
9855	HD 31904	05 15·7	+40 56	1-25	F·103a·O	·005	+02·2	19 01	19 09	1
9856	35439	05 47·5	+56 05	"	"	"	+02·2	19 14	19 46	2
9857	40756	05 57·1	+63 27	"	"	"	+02·3	19 50	20 18	3
9858	54070	07 02·4	+71 59	"	"	"	+02·6	20 24	20 38	4
9859	61294	07 33·5	+38 34	"	"	"	+02·6	21 05	21 27	1
9860	65501	07 35·1	+35 41	"	"	"	+02·6	21 33	22 01	2
9861	67837	08 04·7	+39 02	"	"	"	+02·6	22 05	22 29	3

Sunday, March 12-13 1944 H— rain + fog.
Put hot water in setting.

Hazy clouds all day. Closing at sunset
Kept a record of temp.
Open at 23 7 E

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
0 51 W	+ 4 c 5 2	2	5.62	A3	1½ 1½ 1½	getting
0 55 W	+ 5 0 0 6	2-3	7.59	K0	1½ 1½ 1½	ceiling getting variable
1 17 W	+ 6 3 2 7	2-3	7.49	K0	1½ 1½ 1½	temp. rising seeing improves.
0 52 W	+ 7 1 5 4	2-1	7.45	K0	1½ 1½ 1½	
0 11 W	+ 3 8 2 7	2	7.07	K5	1½ 1½ 1½	
1 04 W	+ 3 5 2 4	2	7.27	K0	1½ 1½ 1½	
1 22 W	+ 3 3 5 4	2	7.03	G5	1½ 1½ 1½	seeing variable

Dome turned seven times up this.
Dome steadily turning.
Sunday - cleaned contacts of dome
turning relay - Y.
12 Dia not developed

WBEN Mar. 13 MC +1m 57s SC -14s HTW -17.2s adv 1m STW -0.1m rest

Date [illegible] Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle
9862	-3 43358	06 10.7	+1 12	I-25"	E103a-O	.008	-1.5°	19 10	19 34		
7863	46642	06 29.4	7 39	"	"	"	-1.5	19 49	20 13	/	50 W
9864	52976	06 58.2	12 44	"	"	"	-1.5	20 17	21 17	2	25 W
9865	67799	07 45.6	3 32	"	"	"	-1.6	21 21	22 01	3	22 W
9866	77445	08 57.4	7 41	"	"	"	-1.9	22 07	22 47	4	55 W
9867	85505 Focus test	09 47.1	0 33 outside	"	"	"	-1.8	22 52	23 52	/	11 W

Plate holder.

Done worked most of the time.

Seeing v poor.

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
[illegible]	+1° [illegible]	0	6.7	F5	1½ 1 1½	[illegible]
5 0 W	+7 38	0	6.42	A3	1½ 1½ ½	Poor Seeing!
1 25 W	+12 40	0	7.35	K5	1½ 1½ 1½	Sky getting thick
1 22 W	+3 25	0	7.08	G5	1½ 1½ 1½	[illegible]
55 W	+7 30	0	7.07	K0	1½ 1½ 1½	"
1 11 W	+0 19	0-1	7.29	K0	1½ 1½ 1½	Seeing getting better, towards end
					7 - 5°	

Exposures changed to 2377?

Exposures changed to longer

probably not right time

	HC	SC	MT	ST
Mar. 14	-02 00	-18.3	-15.0	+0.2

Date Saturday 1944 [illegible] 12-19 N Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9868	HD 42111	06 03.8	+02 31	1=25	E10:a0	.008	-03.9	19 17	19 31 2	
9869	48348	06 37.9	+03 08	"	"	"	-04.0	19 36	20 34 3	
9870	64938	07 31.2	+05 46	"	"	"	-04.2	20 42	21 38 4	
9871	71095	08 10.4	+02 27	"	"	"	-04.3	21 33	22 03 1	
9872	72208	08 26.5	+10 09	"	"	"	-04.3	22 03	22 36 2	
	[illegible]									

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	+02 29	0	5.58 Ao	1½ 1½ 1½	
L 22W	+03 07	0	7.14 Ko	1½ 1½ 1½	
L 22W	+04 38	0	7.32 Ko	1½ 1½ 1½	
L 08W	+02 18	0	6.91 Ko	1½ 1½ 1½	
L 33W	+10 01	0	6.58 Ao	1½ 1½ 1½	

	MC	SC	MT s	ST m
Mar. 20	+2 05.0	-13.6	+00.2	+0.2

Date Mar 20-21 Monday Y Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9873	HD 41467	06 003	41 52	I-m	F103a-O	008	-4.0	19 12	1938	1	
9874	41636	013	41 04	"	"	"	-3.8	19 42	2010	2	
9875	56941	07 140	42 50	"	"	"	-3.5	20 16	20 50	3	
9876	64052	469	03 32	"	"	"	-3.5	20 57	21 47	4	
9877	78196	09 018	01 52	"	"	"	-3.5	21 51	22 31	1	
9878	85709	485	06 26	"	"	"	-3.6	22 37	23 15	2	
9879	94237	10 475	00 21	"	"	"	-3.5	23 21	00 11	3	

{ 2 hrs lost outside Plow Book

Dome worked most of time

Note - The temp control relay motor stuck (i.e would not start) This did not matter while temp was rising. I could get it started by snapping switch several times, but it kept failing. It would stick when tripping the feelers - as if motor did not have enough power. Feelers in the night it meant 0°F. Needs overhauling!

Focus unchanged.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
1 11 W	+41 52	2	732	KO	1½ 1½ 1½	
1 42 W	41 03	2	742	KO	1½ 1½ 1½	
1 09 W	42 45	2	757	KO	1½ - 1½ 1½	Lamp reading dome
1 34 W	+3 25	2-1	794	Ma	1½ 1½ 1½	
1 03 W	+1 40	2-1	776	Ma	1½ 1½ 1½	Haze at times
1 08 W	+6 15	1-2	762	Ma	1½ · 1½ 1½	Rest on 1st time 23°
57 W	+00 04	2	779	K5	1½ 1½ 1½	
					7 - 5	

7 runs good

Date Tuesday March 21-22, 1944 H **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9880	HD 45724	06 24.0	+02 43	I-25	E-103a-O	2.1 mm	0.0	19 05	20 01	1
9881	52556	06 56.6	+15 28	"	"	"	+0.1	20 02	20 33	2
9882	62264	07 38.1	+00 21	"	"	"	+0.0	20 34	21 12	3
9883	72308	08 30.3	+03 25	"	"	"	-0.1	21 14	21 44	4
9884	82189	09 25.4	-73 39	"	"	"	0.0	22 11	22 29	1
9885	85528	09 47.7	+61 36	"	"	"	-0.1	22 32	22 50	2
9886	95057	10 53.4	+52 26	"	"	"	0.0	23 23	0 12	3
	[illegible]									
9887	HD 98220	11 25.5	+49 29	"	"	"	0.0	0 03	0 35	4
9888	107328	12 18.9	+43 15	"	"	"	0.0	0 42	1 10	1

N - NW wind.

Frame at 23.75

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
1 15 W	-02 42	1-0	7.74	MA	1½ 1½ 1½	seeing blowing of body.
13 W	+15 26	0	6.89	KO	1½ 1½ 1½	← dome
12 W	+10 20	0	7.14	G5	1½ 1½ 1½	
12 W	+12 58	0-1	7.48	KO	1½ 1½ 1½	← dome
11 W	+12 25	0-1	6.24	F5	1½ 1½ 1½	good times blowing wind.
09 W	+21 23	0-1	7.42	K0	1½ 1½ 1½	
11 W	+22 11	1-1	7.34	KO	1½ 1½ 1½	← dome 2
					7' 5"	8
06 W	+11 12	1	7.16	G5	1½ 1½ 1½	
12 W	+12 10	1	6.26	F0	2-2	foggy [illegible]

Small bright star in low N sky

right.

That not a meteor!

The trouble of the meteor.

Thurs. Mar 23-24 Clear and calm. N

Date Friday Mar 24-25 Y **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9889	H.D. 47320	06 32.4	02 48	I-25"	E1030-0	008	+6.1	19 08	19 48	2
9890	53925	7 01.8	37 36	"	"	"	+6.0	19 54	20 24	3
9891	62141	7 37.4	22 39	"	"	"	+6.0	20 30	21 00	4
9892	69682	8 12.9	53 53	"	"	"	+6.0	21 08	21 26	1
9893	77309	8 56.7	54 41	"	"	"	+6.0	21 30	21 42	2
9894	80953	9 17.7	64 23	"	"	"	+6.0	21 47	22 31	3
9895	84812	9 42.6	66 04	"	"	"	+6.0	22 35	22 53	4
9896	88651	10 09.3	60 31	"	"	"	+6.0	22 57	23 37	1
9897	95499	11 14.8	67 38	"	"	"	+6.0	23 41	00 11	2

{ Focus left. on Pole line

Saturday 1944 March 25-26 N- rain and snow; clear last half.

Sunday, March 26-27, 1944 H- clear most of day. Cloudy this p.m. Rain first of afternoon. Clouds in evening.

Focus 23.68

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
1 05W	02 44	1	742	K0	1½ 1½ 1½	
1 11W	37 31	1-2	732	K0	1½ 1½ 1½	
1 11W	22 31	1-2	734	K0	1½ 1½ 1½	
1 00W	53 45	1-2	664	F0	2 - 2	
33W	54 30	1-2	574	A2	2 - 2	
1 01W	64 10	1-2	753	K2	1½ 1½ 1½	
59W	65 50	1-2	657	F0	2 - 2	
1 18W	60 15	2	8.D?	Ma	1½ 1½ 1½	
46W	67 24	1-2	731	K0	1½ 1½ 1½	
					1-5	

		MC	SC	SW	MT_s	ST_m
Mar. 27	12	+2 13.7	−12.3	+00.7	+03.9	+0.3

ΔT_s −3.6

Date Tuesday Morning 28-29 1949 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9977	HD 50277	06 47 4	+08 30	I-25	E-103a-O	S.T 008	+46	19 16	19 56	1 13 W
9978	[illegible]	07 38	+13 59	"	"	"	+0	19 59	21 09	4
9980	[illegible]	[illegible]	[illegible]	"	"	"	+45	21 12	21 40	1 0 56
9981	[illegible]	[illegible]	[illegible]	"	"	"	+45	21 48	22 32	2 1 25 W
9982	[illegible]	[illegible]	[illegible]	"	"	"	+46	22 41	23 41	3 1 W
9983	[illegible]	[illegible]	[illegible]	"	"	"	+46	23 44	00 36	4
	[illegible]	[illegible]	[illegible]							

Light breeze out of ESE. Shining a bit after sunset. [Cloud, rain forecast for tonight]
Sunset 23.6h

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	1 13 W	+18° 27	0-1	5.90 A5	12 12 12	[Est Seeing] Very large, light bands & fld
	1 2 W	+12 14	1	7.50 K0	12 12 12	Stage - Red J just bet Thuban
	0 52 W	+30 49	0-1	6.12 K0	12 12 12	Stage
	1 25 W	+24 16	1	7.32 F5	12 12 12	Stage Thuban
	1 39 W	+13 23	1-2	7.48 K0	12 12 12	
	1 13 W	+19 26		7.20 G5	12 12 12	Stage 2 Light clouds increasing
					7° 5	

Seeing worst now; but all seems low from haze

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Date ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9904	H.D. 51090	06 50 41	+33 58	1-25	[illegible]	[illegible]	+00·6	19 31	20 01	1
9905	60145	07 [illegible]	+63 21	"	"	"	+00·5	20 09	20 43	2
[illegible]	71533	08 23	+59 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	20 49	[illegible]	3
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9908	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Rain and snow during day. Clearing at sunset. Cleared out and water from around telescope tube.

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Photo 23.75 ±

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	1 22 W	+3 13	0	657 G0	1½ 1½ 1½	wet dew. Very difficult to focus. at
	1 00 W	+63 13	0	654 F3	1½ 1½ 1½	broken clouds. at
					7.5	

Not out.

Library set up. Apr. 1-2

wet but no rain - part cloudy

rain start 2 - broken clouds

rain last hour

Date Sunday, April 2-3, 1944 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9909	HD 52554	06 56.6	+17 53	I-25	E-103a-O	S.I-.008	+00.5	19 19	20 09 2	
9910	65757	07 35.1	+23 53	"	"	"	+00.5	20 12	20 52 3	
9911	72505	09 29.2	+13 31	"	"	"	+00.3	20 55	21 37 4	
	82670	09 28.3	+23 52	"	"	"				
	83959	09 13.4	+25 14							

WATCH RESET

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Partly cloudy all day; clearing after sunset.

Focus not changed.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
3 37 W	+17 48	1	7.85 Ma	1½ 1½ 1½	Strong NW wind. Light cloud 19[h] 15[m] – 20[m]
1 22 W	+23 45	1	7.42 KO	1½ 1½ 1½	Light cirrus cloud
1 34 W	+13 25	1	7.40 KO	1½ 1½ 1½	Clearing out of [illegible] forming not as bad
			7.61 K5		
			7.60 KO		Spent an hour trying to get focusing belt to engage belt working. Tube = focus too far out to touch on clearing [illegible]

	MC	∠	MT	ST
Apr 3	+1 51.2	−11.4	+18.3	−0[m]0.0

Date Sunday April 4-5, 1941 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9912	HD 35510	07 20.2	+09 18	I-25	1031.0	S.T .018	+0.4	19 20	19 50	1
9913	62417	07 38.7	+13 07	"	"	"	0.4	19 52	20 42	2
9914	7 2731	08 19.5	+35 22	"	"	"	0.4	20 44	21 18	3
9915	7 2819	09 54.5	+19 32	"	"	"	0.3	21 21	21 55	3
9916	34258	09 [illegible]	+19 28	"	"	—	0.2	21 57	22 [illegible]	1
9917	7 3147	10 51.2	+26 [illegible]	"	"	"	0.2	22 54	23 38	2
9918	11 1263	13 [illegible]	+33 27	"	"	"	0.2	23 [illegible]	[illegible]	3
9919	117 [illegible]	13 27.1	+42 [illegible]	"	"	"	0.2	0 15	[illegible]	4
	From [illegible]	[illegible]	[illegible]							

Put on new primary belt.
Strong N wind.
Focus not changed.

ing Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	1 22 N	+ 0 4	1-2	7.02 KO	1½ 1½ 1½	OK
	37 N	+13 00	1	7.50 KO	1½ 1½ 1½	Wind shaking [illegible]
	32 N	-35 13	1	7.21 KO	1½ 1½ 1½	[illegible]
	31 N	+ 7 22	1-2	7.29 KO	1½ 1½ 1½	
	2 N	2 17	1-2	7.64 KO	1½ 1½ 1½	Lights [illegible] 22[20]—49[47]; [illegible]
	1 5 N	+31 [illegible] 7	2	7.40 KO	1½ 1½	[illegible]
	0 1 E	+37 44	2½	7.21 K2	1½ 1½ 1½	Stars
	0 13 E	+ 4 25	2-3	7.05 KO	1½ 1½ 1½	setting [illegible] 20—
					7[h] 5[m]	stopped 2[??] [illegible]
						Com + focusing motors OK.

285

Date Tuesday 1911 April 6-7 N Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9920	HD 76392	8 50·1	+40 35	1-25	Eastman	.008	+04·3	21 30	21 44 1	
9921	76994	8 54·2	+38 00	"	"	"	+04·3	21 48	22 36 2	
9922	99967	11 25·0	+47 12	"	"	"	+04·3	22 42	23 14 3	
9923	103726	11 51·7	+62 06	"	"	"	+04·3	23 19	23 41 4	

Broken all day. Clearing over in late afternoon. Closing about 21h.

286

Windy.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 34 W	+40 23	1	6.22	F_2	1½ 1½ 1½ Image unsteady because of wind.
2 22 W	+37 42	1-2	7.28	K5	1½ 1½ 1½ ← done tuning !! good
0 31 W	+46 57	2	7.49	K0	1½ 1½ 1½ Cirrus
0 31 W	+61 51	1-2	7.06	G5	1½ 1½ 1½

Date ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle

ing Time S.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS

Date Monday Apr 10-11 Y Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle
9930	HD 78196	9 01.8	+1 52	I-25	E1020-0	.008	+07.6	19 30	20 30	1	
9931	78712	9 04.6	31 23	"	"	"	+07.5	20 36	21 20	2	
9932	90125	10 19.1	2 52	"	"	"	+07.5	21 25	22 19	3	
9933	99267	11 25.0	47 12	"	"	"	+07.4	22 26	23 16	4	
9934	109651	12 38.8	26 27	"	"	"	+07.4	23 21	23 51	1	
	Focus test.										

Focus unchanged

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
24 W	+01 40	1	7.76 Ma	1½ 1½ 1½	
12 W	31 10	1-0	7:0? Mc	1½ 1½ 1½	
57 W	+2. 38	0	7 43 K0	1½ 1½ 1½	Poor seeing
48 W	+46 59	0	7 49 K0	1½ 1½ 1½	
24 W	26 13	0	6 77 A3	1½ 1½ 1½	New Emission ~ holders ~ 30 also
		Heat not on mirror			

Date WED. APR 12-13 Y Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9935	HD 49478	08 12 1	9° 11′	I 25	E103a-O	009	+4.0	19 30	20 00	2	52 W
9936	76629	08 523	9 46	"	"	"	+4.2	20 03	20 33	3	44 W
9937	85805	09 471	0 33	"	"	"	+4.1	20 39	21 13	4	31 W
9938	87500	10 083	16 14	"	"	"	+4.1	21 18	21 36	1	42 W
9939	94237	10 475	00 21	"	"	"	+4.1	21 40	22 30	2	47 W
9940	101112	11 330	9 26	"	"	"	+4.1	22 34	23 10	3	42 W
9941	109996	12 340	23 12	"	"	"	+4.1	23 14	23 50	4	22 W
	Focus	test									

Focus 23.70

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
52 W	9 00	1-2	731 K0	1½ 1½ 1½	strong NW wind
44 W	9 35	1	732 K0	1½ 1½ 1½	new E-W ← Dome
31 W	+00 20	1-2	729 K0	1½ 1½ 1½	
42 W	16 01	1-2	656 F0	1½ 1½ 1½	
47 W	+00 04	1-2	777 K5	1½ 1½ 1½	
42 W	+09 11	2	755 K0	1½ 1½ 1½	
22 W	22 57	1-2	747 K0	1½ 1½ 1½	
				6-4	

Date ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
				7-2	(+ bubble 4, 12, also)
					Poor guide
					Friday April 4-5
					Dome was closed for afternoon. N

Date Sunday, April 16-17, 1944 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
						Set				
9950	HD 99967	11 25.0	+47 12	I-25	E-103a-O	008	+ 4.0	21 50	22 40	4
9951	111164	12 42.2	+12 30	"	"	"	4.1	22 44	23 08	1
9952	109345	12 28.9	+33 57	"	"	"	4.0	23 12	23 46	2
9953	114793	13 07.7	+19 17	"	"	"	4.0	23 49	0 19	3
9954	118226	13 30.6	+10 43	"	"	"	3.9	0 21	0 55	4
9955	122742	13 58.6	+11 16	"	"	"	3.9	0 57	1 23	1

Cloudy all day. Gradually thinning with clouds + haze after dark.

Focus 23.70 (not changed.)

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
0 36 W	+46 57	1	7.49 K0	1½ 1½ 1½	Very windy (NW). Image unsteady + small
0 13 E	+42 15	0-1	6.13 A3	1½ 1½ 1½	Get very strong. Light clouds.
0 38 W	+33 41	1-2	7.37 K0	1½ 1½ 1½	
0 32 W	+19 03	1-2	7.36 G5	1½ 1½ 1½	
0 46 W	+10 29	1-2	7.46 K0	1½ 1½ 1½	
0 46 W	+11 03	1	7.14 G5	1½ 1½ 1½	Light clouds.

All Ilford plates now in box. Also held 2 Ilford plates now box.

	MC	SC	MTW s	STW m
Sept. 17	+2 07.0	−11.6	+19.0	−0.1

Date Monday April 17-18 - Y **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H
9956	HD 78196	9 018	+1 52	I-25	E103a-O	008	+4.9	19 40	20 20	1
9957	78633	9 043	72 04	"	"	"	+5.0	20 29	20 59	2
9958	82685	9 284	73 32	"	"	"	+5.0	21 04	21 24	3
9959	84812	9 426	66 04	"	"	"	+4.9	21 31	21 45	4
9960	81790	9 227	56 11	"	"	"	+5.0	21 51	22 07	1
9961	81025	9 18.1	52 01	"	"	"	+4.7	22 13	22 33	2
9962	103953	11 532	62 02	"	"	"	+4.8	22 38	23 12	3
9963	114724	13 073	24 48	"	"	"	+4.8	23 19	23 59	4
	Focus test									

Focus 23.69 ±

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
43 W	+1 40	2	7.76 Ma	1½ 1½ 1½	
1 16 W	71 54	2	7 46 K0	1½ 1½ 1½	W
1 18W	73 21	2	671 F0	1½ - 1½ 1½	S N This star
1 24W	65 50	2	657 F0	2 - 2	← Dome
2 08W	55 59	2	690 F2	2 - 2	
2 38W	51 48	2	693 G0	2 - 2	
43 W	61 48	2-1	7 44 G5	1½ 1½ 1½	
17 W	24 32	1-2	7 46 K0	1½ 1½ 1½	
				? - 5	

18-19

Date Tuesday, April 19-20, 1944 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
						Set				
9964	HD 72561	08 28.5	+05 06	I-25	E-103a O	008	10.8	19 38	20 09	1
9965	76494	08 51.4	+04 37	"	"	"	10.7	20 06	20 36	2
9966	78712	09 04.6	+31 23	"	"	"	10.9	20 38	21 16	3
9967	82870	09 29.1	+40 24	"	"	"	10.8	21 19	21 57	4
9968	99967	11 25.0	+47 12	"	"	"	10.8	22 00	22 40	1
9969	101990	11 39.1	+25 47	"	"	"	10.7	22 42	23 18	2
9970	107274	12 14.9	+49 32	"	"	"	10.7	23 21	23 39	3
9971	111591	12 45.3	+23 24	"	"	"	14.7	23 43	0 23	4
9972	117404	13 25.0	+07 43	"	"	"	10.6	0 26	1 02	1
	Sirius Test - outside star base							1		
9973	126271	14 19.4	+68 33	"	"	"	10.6	1 06	1 32	2

Frame set 23.60

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
1 04 W	+54 58	1	7.13	K0	1½ 1½ 1½	N wind; smoke from grass fire.
1 13 W	+04 26	1-0	7.14	G5	1½ 1½ 1½	
1 39 W	+31 13	1	6.8 -8.3	M0	1½ 1½ 1½	5.3-6.8 vis. Fairly bright 5.8?
1 56 W	+46 13	1-0	7.2	F2	1½ 1½ 1½	Fuzzy lines Light [illegible] of 3 S N
0 43 W	+47 10	1-2	7.49	K0	1½ 1½ 1½	Binary
1 08 W	+25 32	1-2	7.37	K5	1½ 1½ 1½	
0 53 W	+49 18	1-2	6.63	K2	1½ 1½ 1½	Wind.
1 08 W	+23 10	1	7.46	K0	1½ 1½ 1½	
1 17 W	+07 28	1-2	7.47	K5	1½ 1½ 1½	Setting 2 7°-5° " 8
0 42 W	+08 20	2-1	7.29	K2	1½ 1½ 1½	

Date Wed. April 19-20 /44 Y **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle
9974	HD 73599	08 34.1	+8 22	I-25	E103a-O	008	+12.0	19 40	20 16	1	1 14
9975	86321	9 52.6	84 24	"	"	"	+12.2	20 26	21 06	2	40 W
9976	79517	9 09.5	74 26	"	"	"	+12.0	21 11	21 39	3	58
9977	83126	9 31.2	67 43	"	"	"	+12.0	21 43	22 13	4	2 10 W
9978	99967	11 25.0	47 12	"	"	"	+12.1	22 18	22 54	1	01 W
9979	114889	13 08.4	19 15	"	"	"	+12.1	23 01	23 41	2	5m W
9980	115709	13 13.8	4 13	"	"	"	+12.1	23 45	00 01	3	20 W
	Fourth exposure outside time hours										
				12 plates were done							

Focus 23.58 ±

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
1 14 W	+08 12	2-0	7.49 KO	1½ 1½ 1½	
40 W	8 4 10	1-2	7.48 KO	1½ 1½ 1½	
1 58W	7 4 15	1-2	7.32 G5	1½ 1½ 1½	
2 10 W	6 7 31	2	7.46 K5	1½ 1½ 1½	
1 01W	4 7 00	1-2	7.49 KO	1½ 1½ 1½	
5ᵐ W	1 8 59	1-2	7.48 KO	1½ 1½ 1½	
20 W	+3 56	1-2	6.56 A0	1½ 1½ 1½	
				7-5	

Thursday Apr 20-21 M

Cloudy - some stars visible at zenith

(Covering part of northern sky being photographed)

Date..... Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.

Ending Time
E.S.T.

Last plate for report 1942-43, 8939

Inside displaced to violet means focus
should be made shorter.